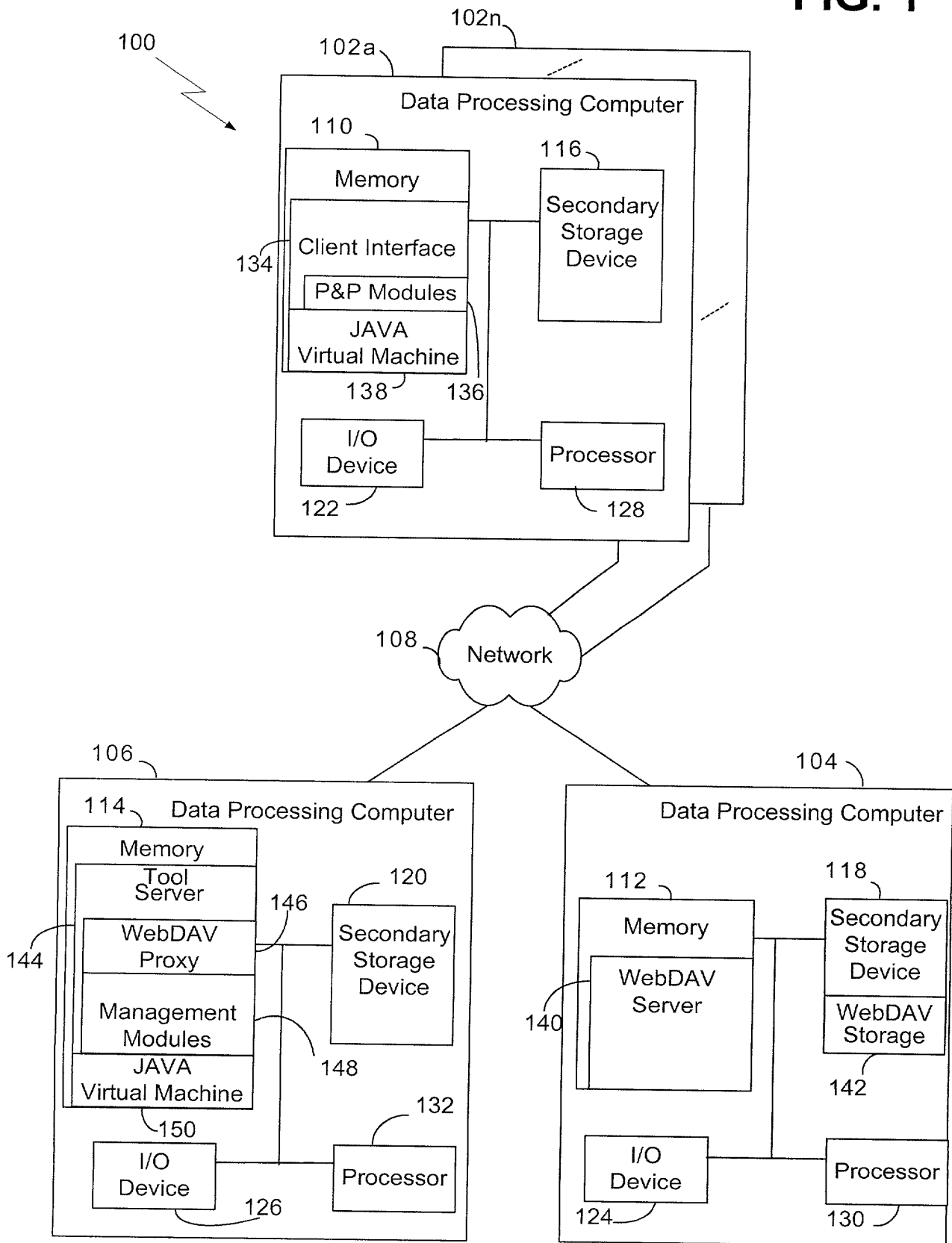
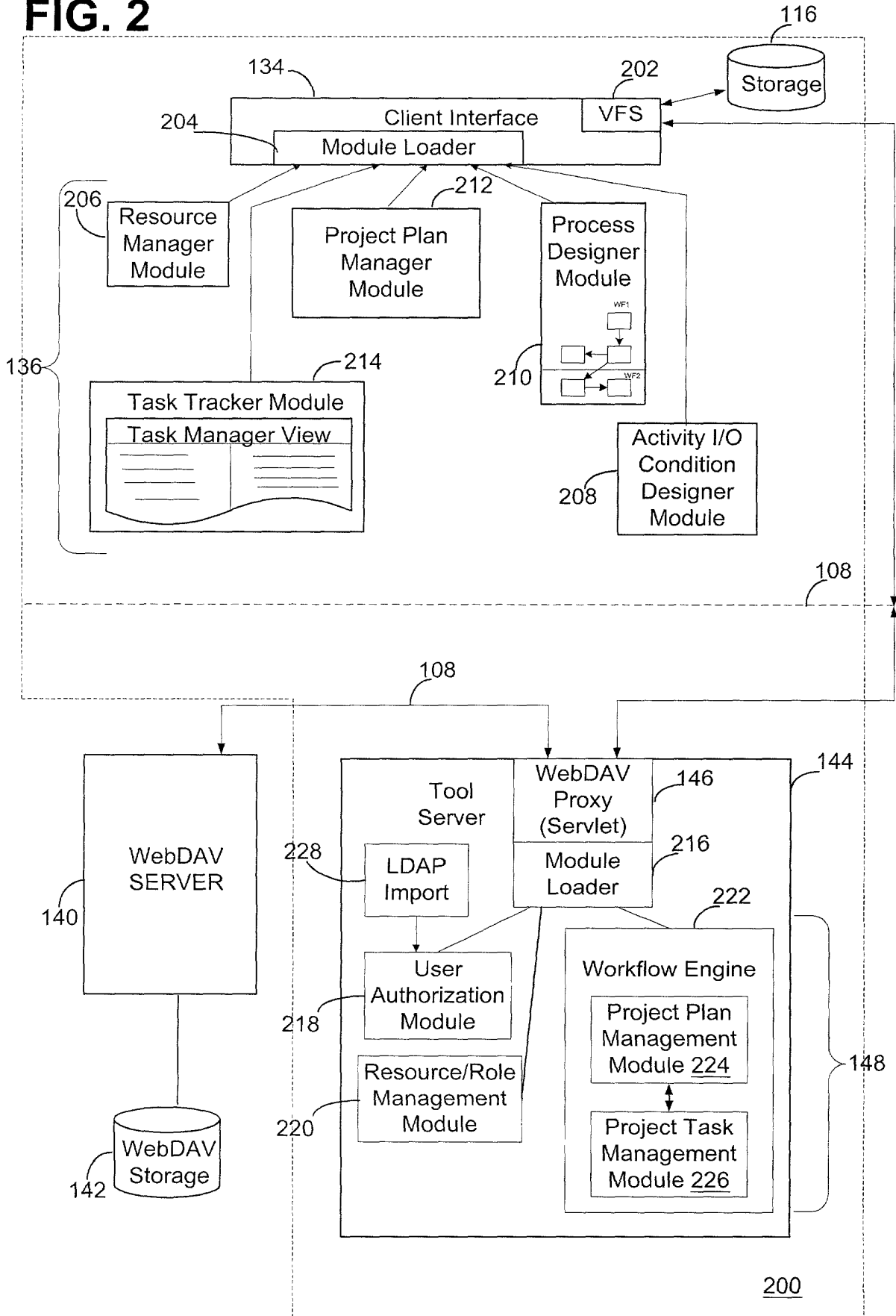


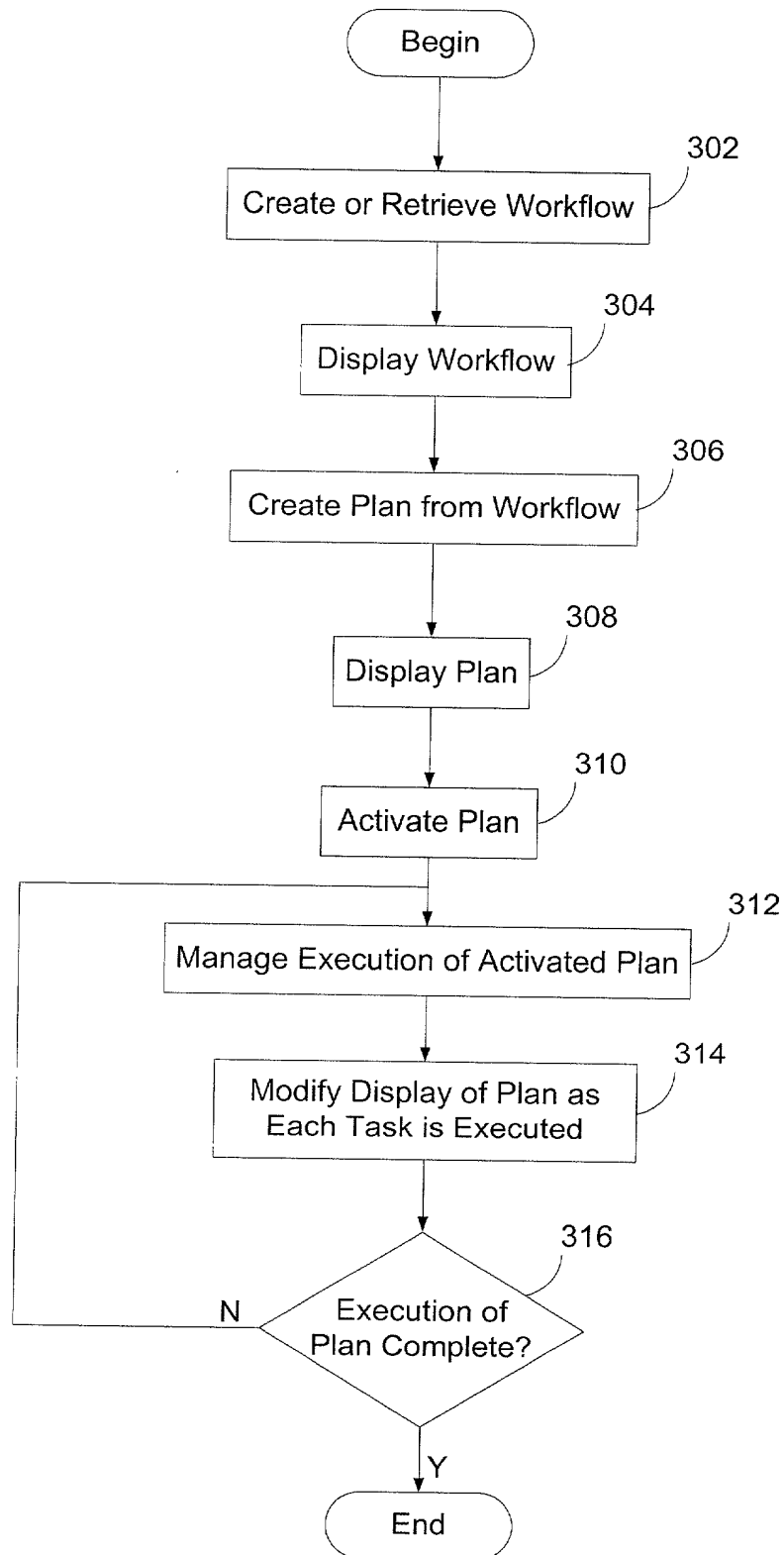
**FIG. 1**



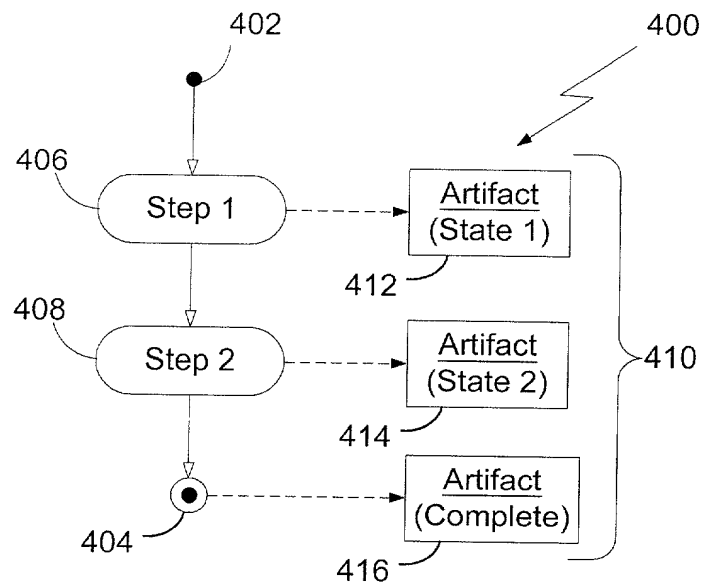
**FIG. 2**



**FIG. 3**



**FIG. 4**



**FIG. 5**

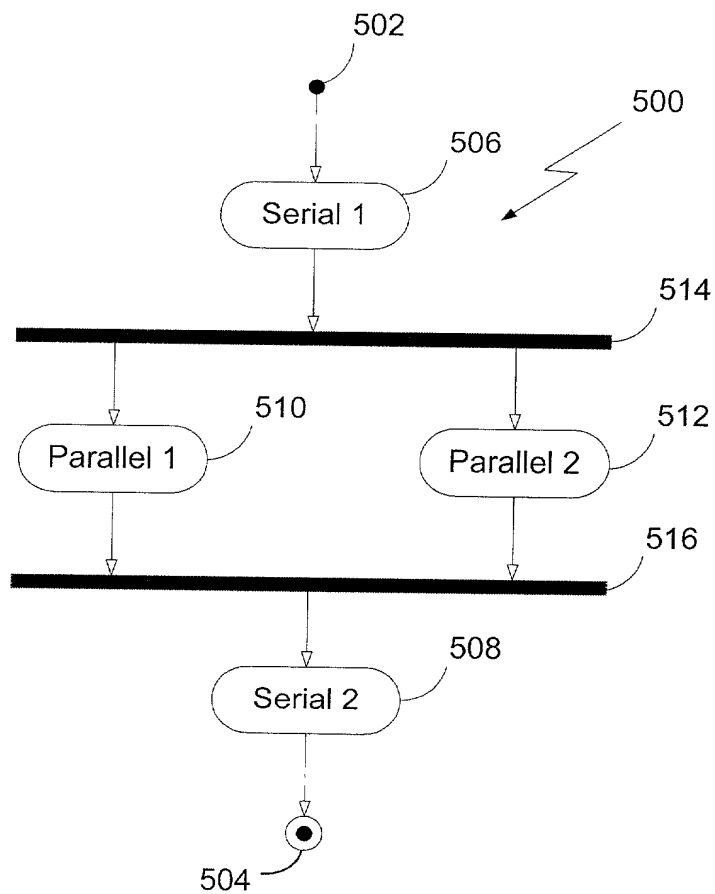
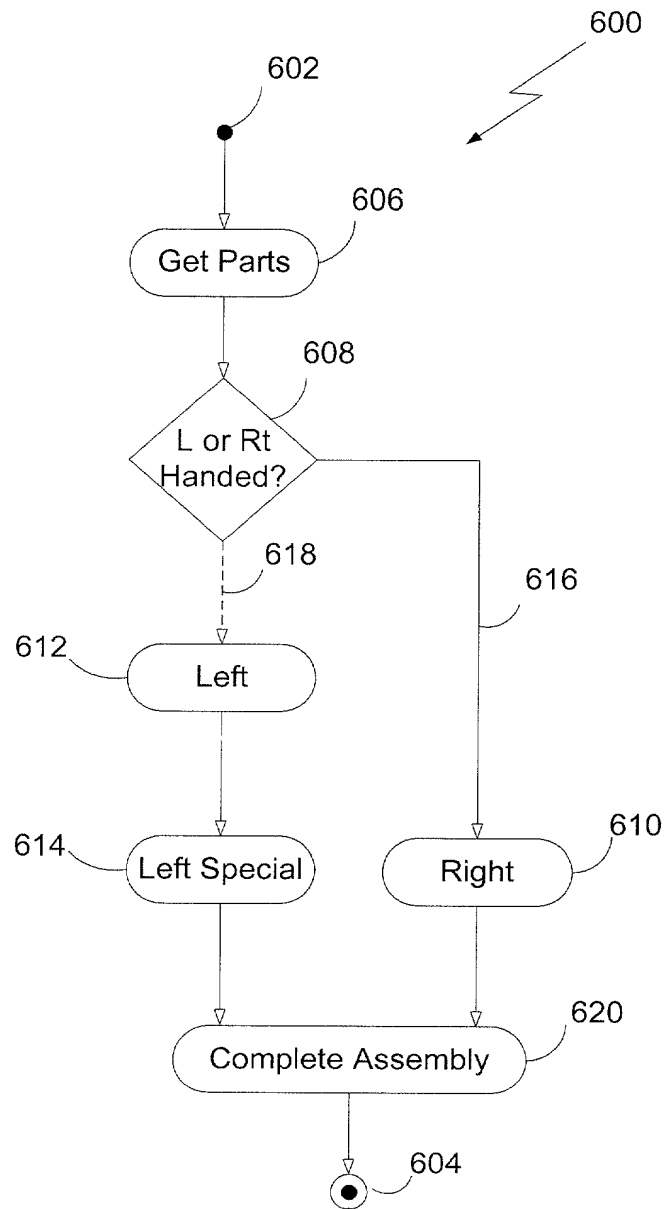
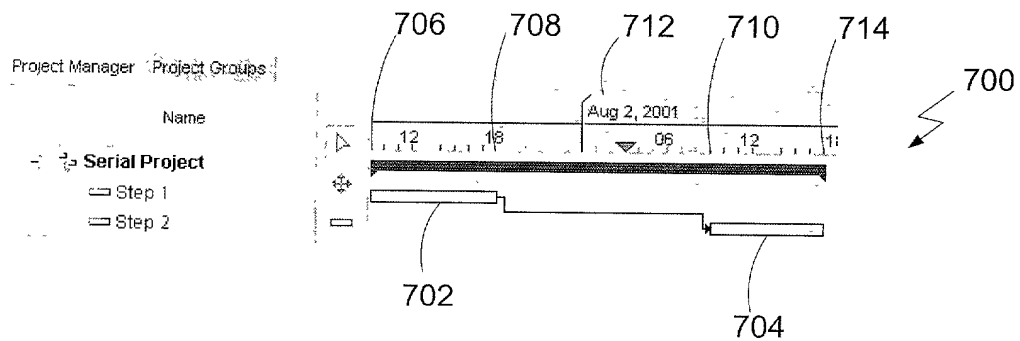


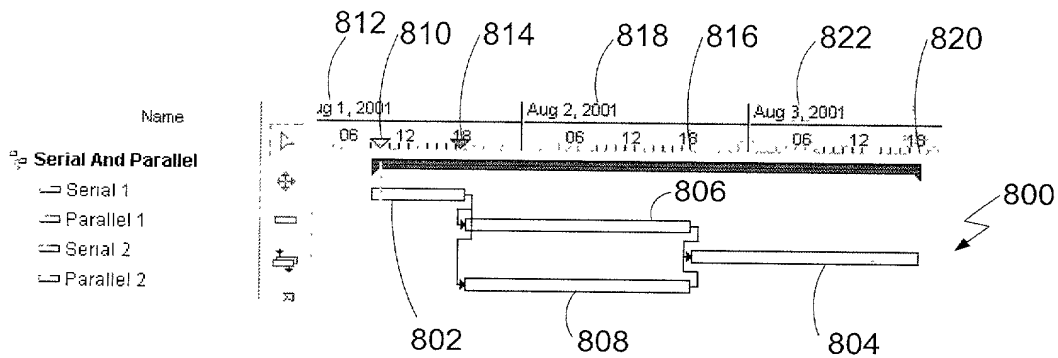
FIG. 6



# FIG. 7



# FIG. 8



# FIG. 9

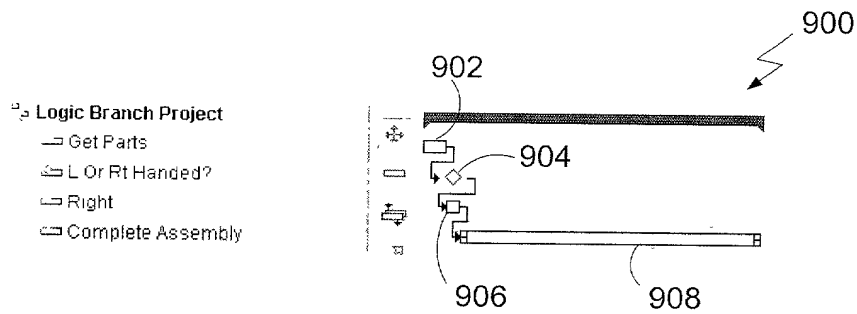


FIG. 10

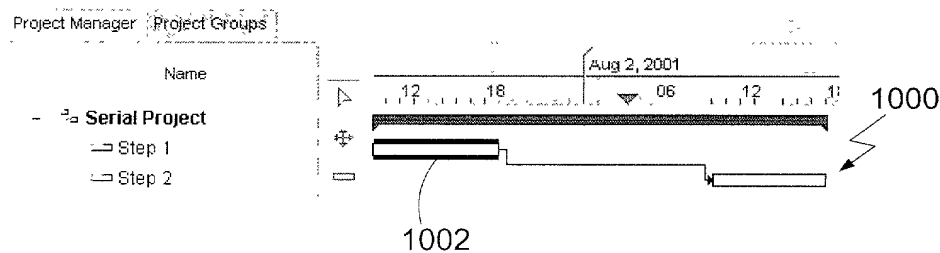


FIG. 11

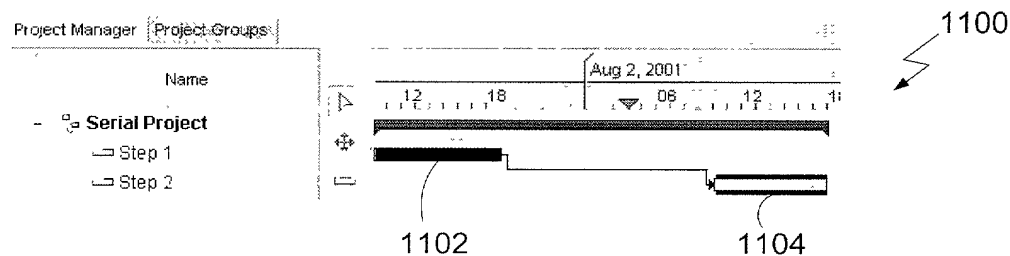


FIG. 12

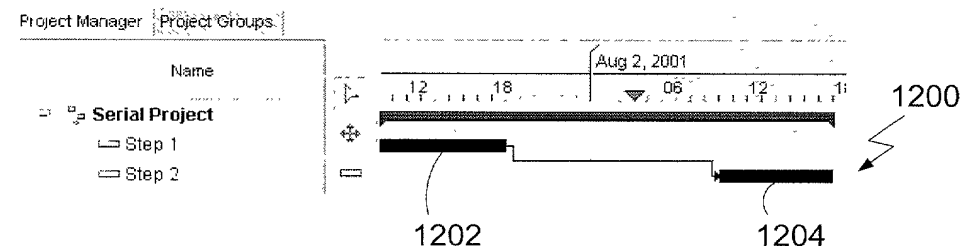


FIG. 13

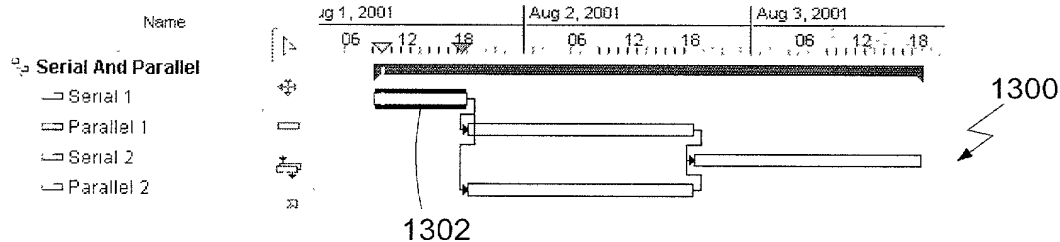


FIG. 14

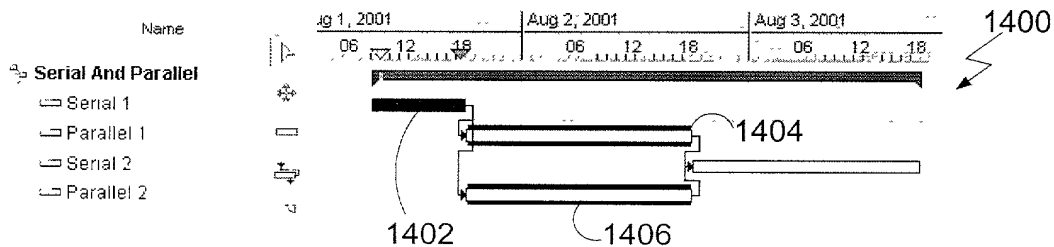


FIG. 15

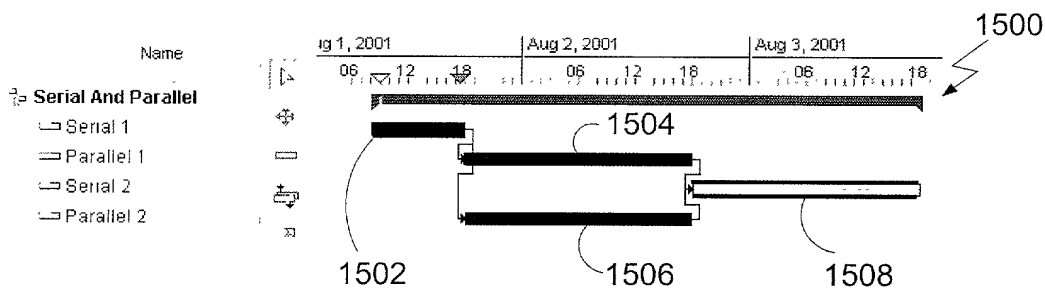
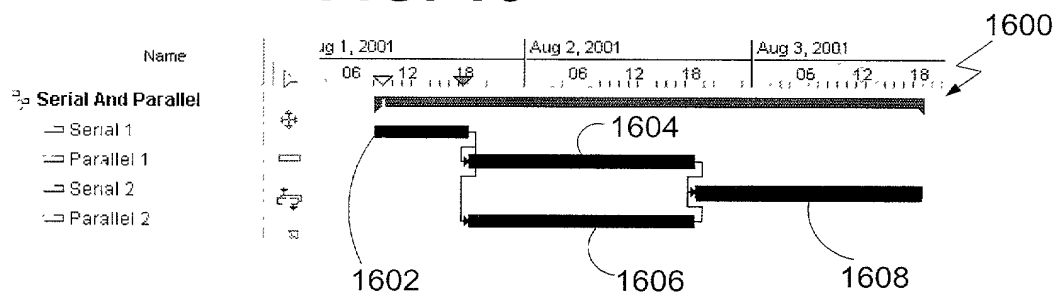


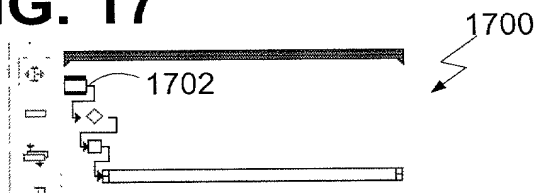
FIG. 16





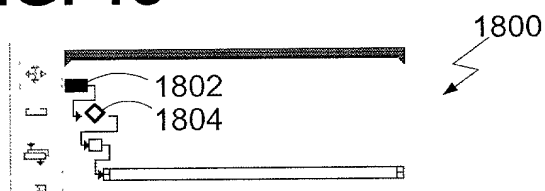
**FIG. 17**

- Logic Branch Project
  - Get Parts
  - L Or Rt Handed?
  - Right
  - Complete Assembly



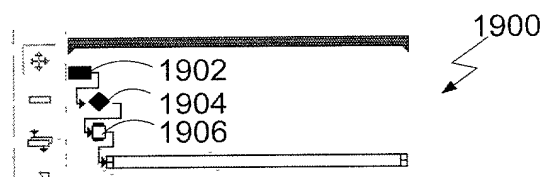
**FIG. 18**

- Logic Branch Project
  - Get Parts
  - L Or Rt Handed?
  - Right
  - Complete Assembly



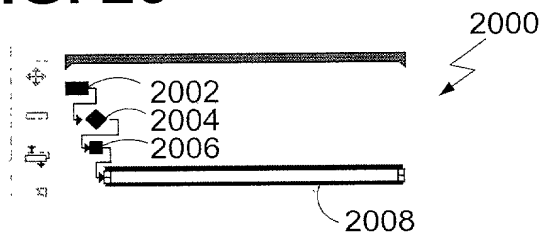
**FIG. 19**

- Logic Branch Project
  - Get Parts
  - L Or Rt Handed?
  - Right
  - Complete Assembly



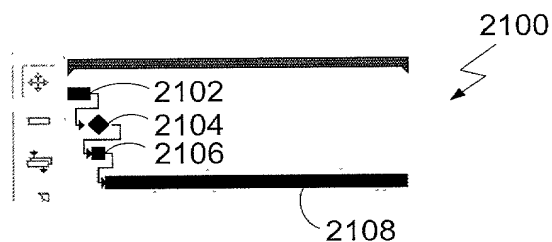
**FIG. 20**

- Logic Branch Project
  - Get Parts
  - L Or Rt Handed?
  - Right
  - Complete Assembly



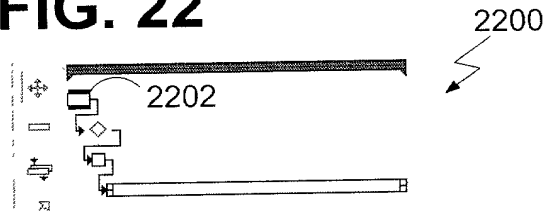
**FIG. 21**

- Logic Branch Project
  - Get Parts
  - L Or Rt Handed?
  - Right
  - Complete Assembly



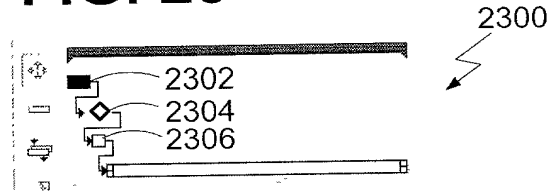
# FIG. 22

- Logic Branch Project
  - Get Parts
  - L Or Rt Handed?
  - Right
  - Complete Assembly



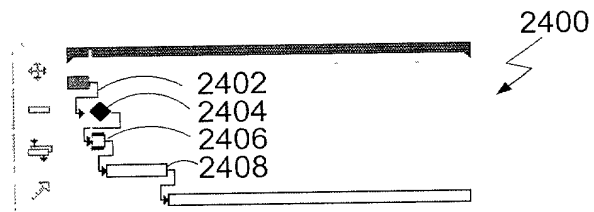
# FIG. 23

- Logic Branch Project
  - Get Parts
  - L Or Rt Handed?
  - Right
  - Complete Assembly



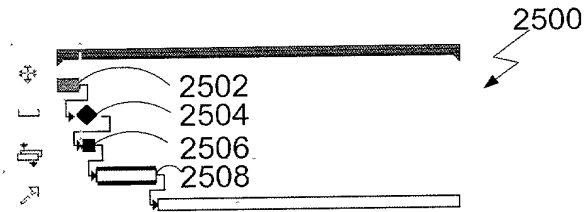
# FIG. 24

- Logic Branch
  - Get Parts
  - L Or Rt Handed?
  - Left
  - Left Special
  - Complete Assembly



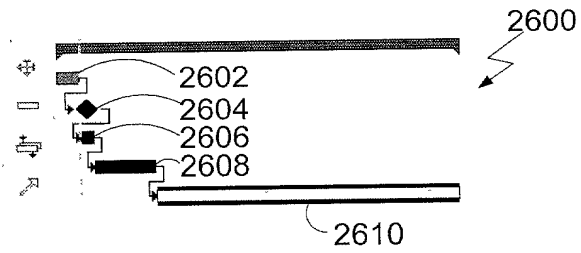
# FIG. 25

- Logic Branch
- ↳ Get Parts
  - ↳ L Or Rt Handed?
  - ↳ Left
  - ↳ Left Special
  - ↳ Complete Assembly



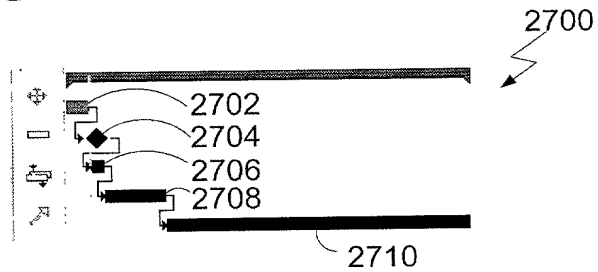
# FIG. 26

- Logic Branch
- ↳ Get Parts
  - ↳ L Or Rt Handed?
  - ↳ Left
  - ↳ Left Special
  - ↳ Complete Assembly

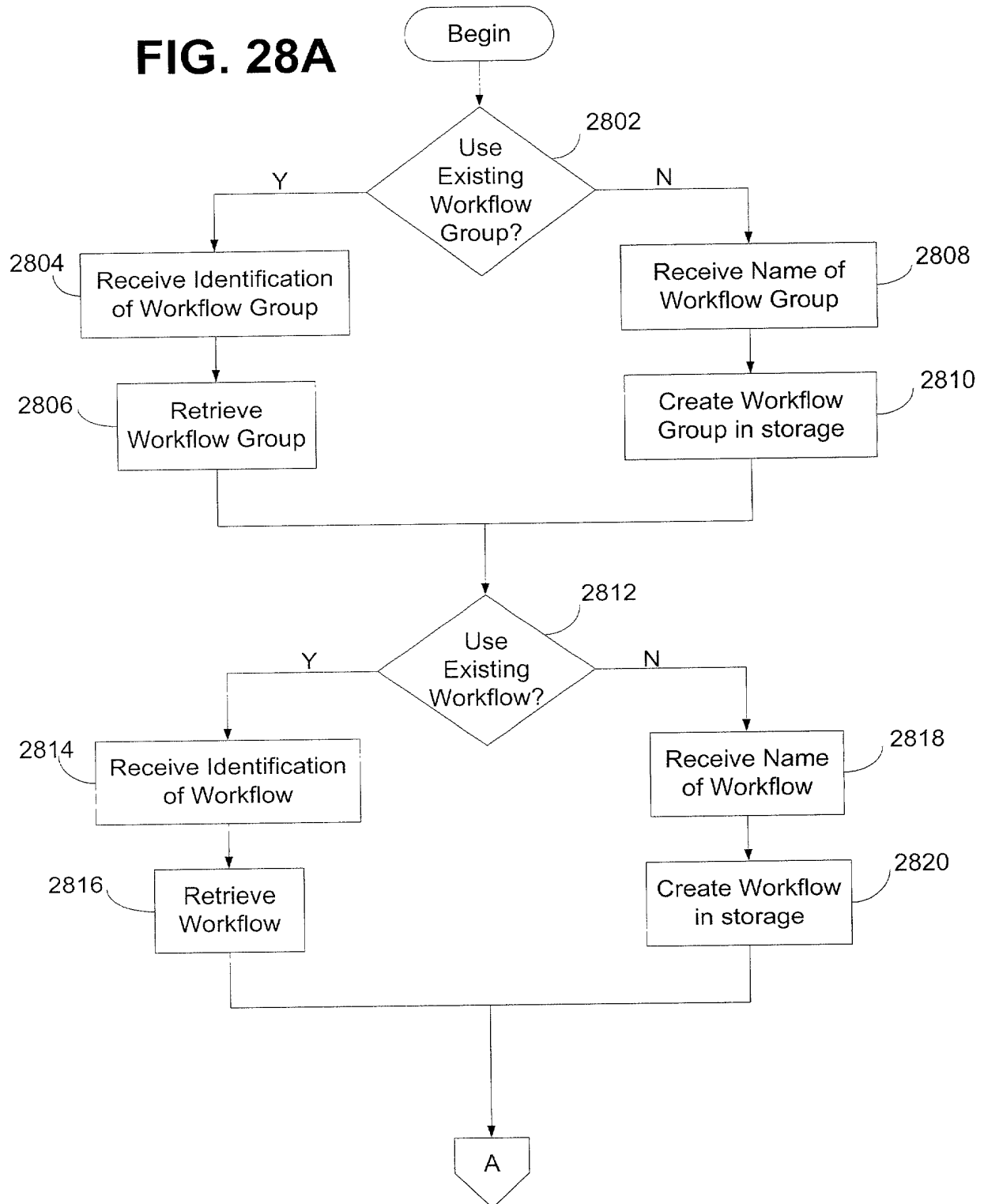


# FIG. 27

- Logic Branch
- ↳ Get Parts
  - ↳ L Or Rt Handed?
  - ↳ Left
  - ↳ Left Special
  - ↳ Complete Assembly



**FIG. 28A**



**FIG. 28B**

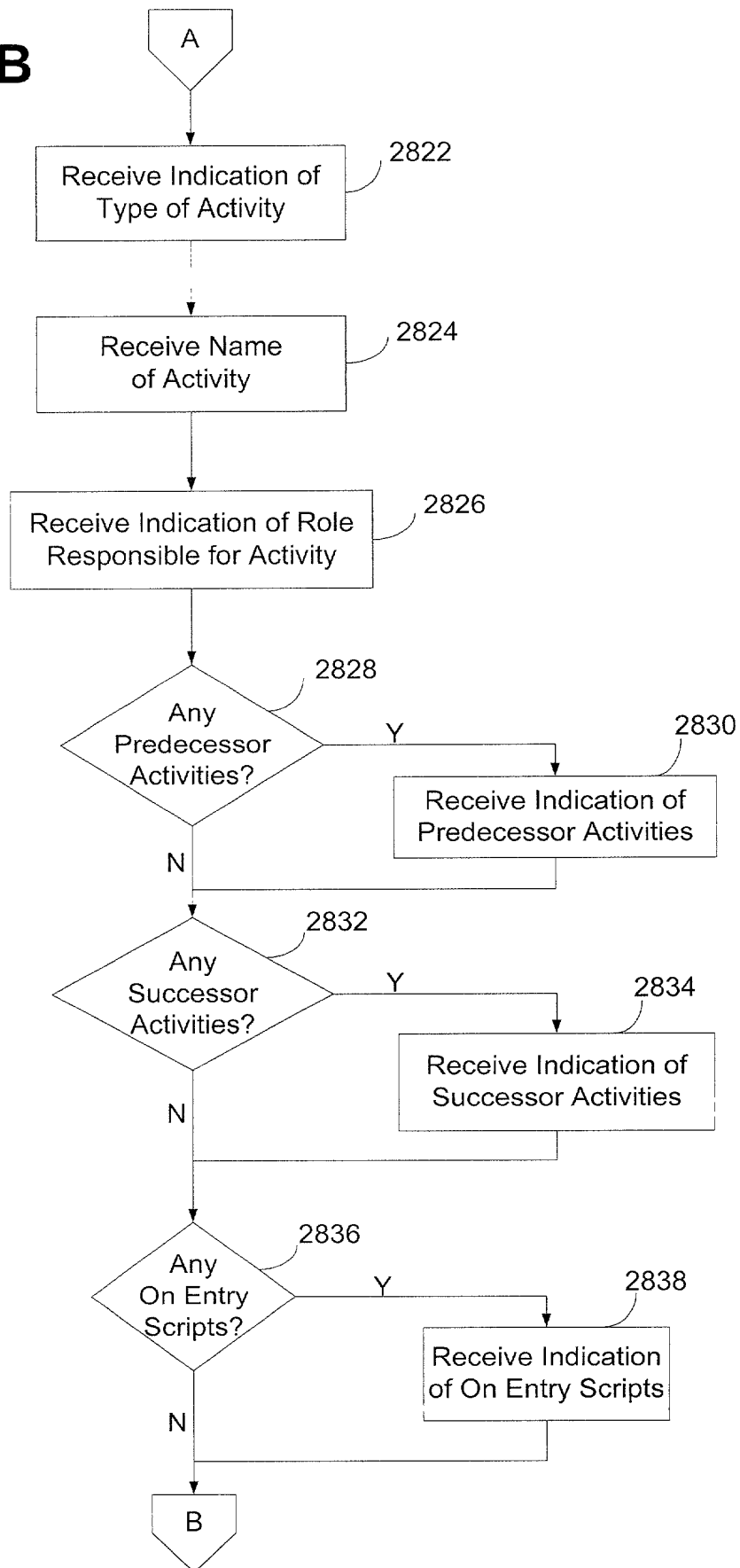


FIG. 28C

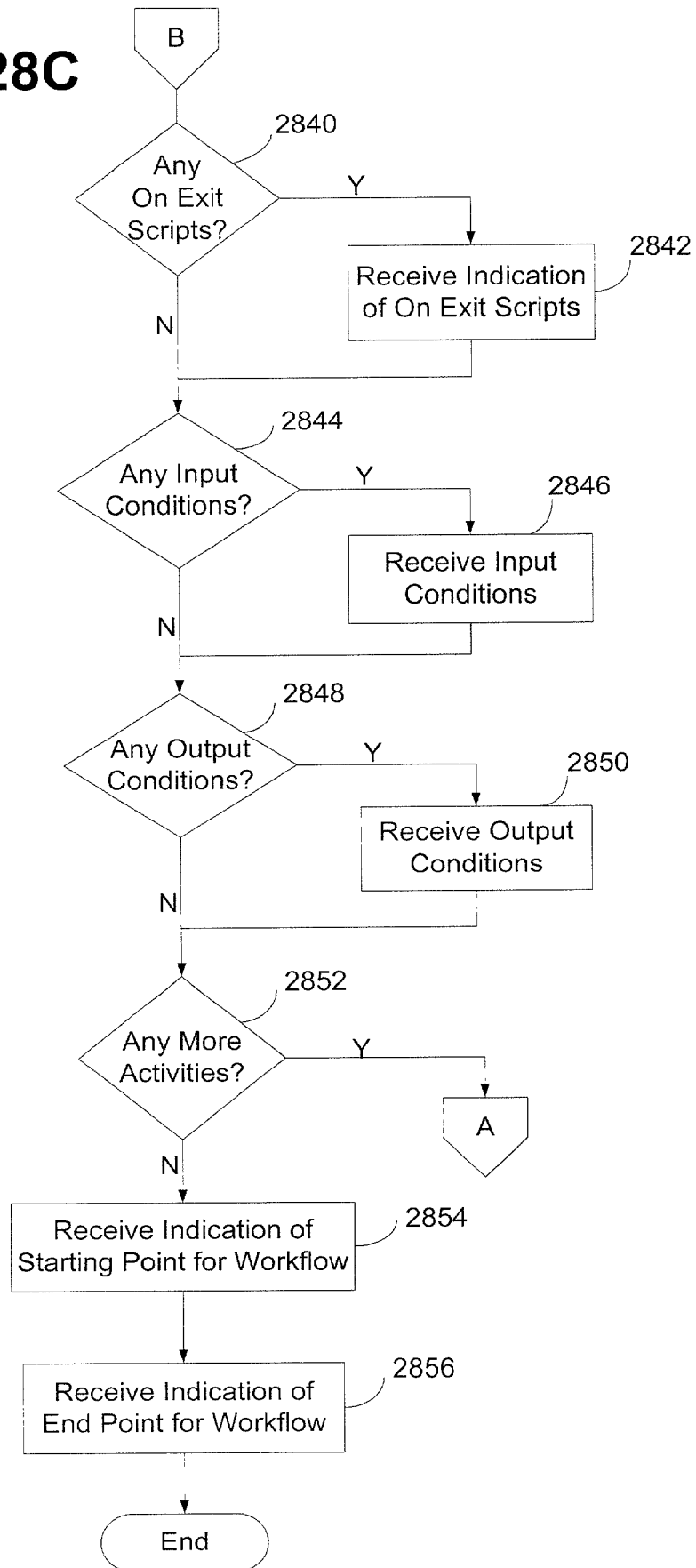


FIG. 29

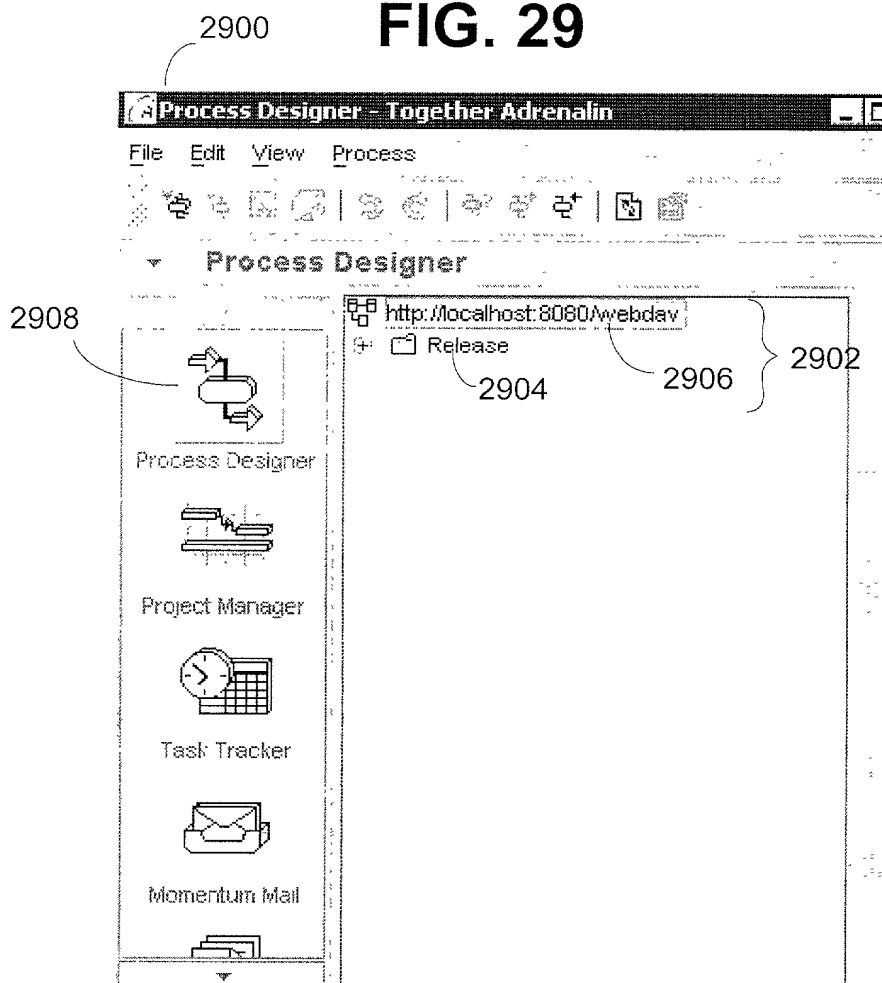
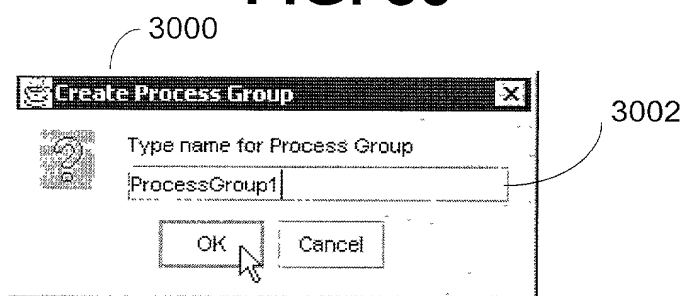
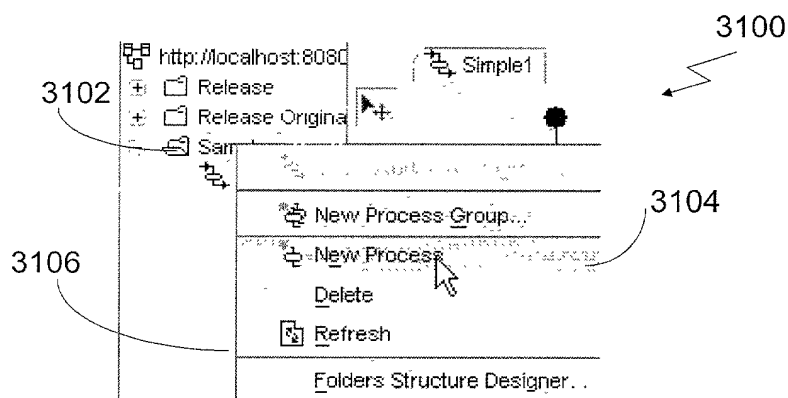


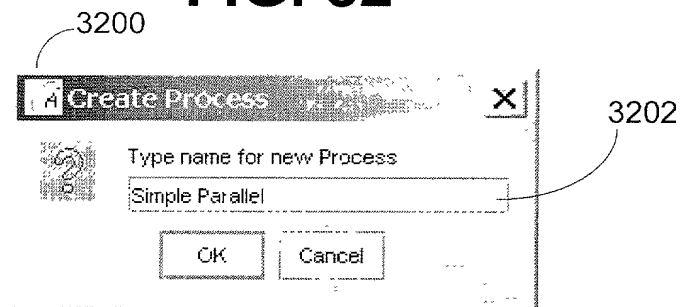
FIG. 30



**FIG. 31**



**FIG. 32**





**FIG. 33A**

# FIG. 33A

3300

3304

3302

3336

3334

3332

3360

3364

3391

3348

3376

3328

3346

3382

3352

3330

3350

3344

3372

3326

3342

3380

3396

3356

3332

3388

3390

3384

3386

3354

```
<?xml version="1.0" encoding="UTF-8" ?>
<process group="" name="Logic Branch Project">
  <description />
  <role name="Assembler" />
  <activity id="10" name="Get Parts" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="11" />
    <successors_id id="1522" />
    <out_artifacts id="1527" />
  </activity>
  <activity id="1523" name="Left" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="1522" />
    <successors_id id="1524" />
    <out_artifacts id="1529" />
  </activity>
  <activity id="1524" name="Left Special" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="1523" />
    <successors_id id="1526" />
    <out_artifacts id="1531" />
  </activity>
  <activity id="1525" name="Right" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="1522" />
    <successors_id id="1526" />
    <out_artifacts id="1533" />
  </activity>
  <activity id="1526" name="Complete Assembly" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <onEntry>
      <![CDATA[
        sendMail(getOwnerEmail(), "Debugging period started",
          "All the SCR files should be placed into the '%SCR_FOLDER%' folder");
      ]]>
    </onEntry>
    <onExit>
      <![CDATA[
        sendMail(getOwnerEmail(), "Debugging finished. No more SCRs found", "");
      ]]>
    </onExit>
    <predecessors_id id="1524" />
    <predecessors_id id="1525" />
    <successors_id id="12" />
    <out_artifacts id="1535" />
  </activity>
</process>
</xml>
```

# FIG. 33B

3392 3393

3394 {

```

- <artifact id="1527" identity="linkable1" name="Document is INITIAL">
  <description>The condition becomes true when the %Document% artifact gets the
  INITIAL state. To make this condition valid you should define the %Document%
  parameter and optionally define the document template and the application to
  open the document.</description>
  <type>linkable</type>
  <link link="%Document%" />
  <state>INITIAL</state>
  <event id="1528" />
</artifact>
- <artifact id="1529" identity="linkable1" name="Document is LEFT">
  <description>The condition becomes true when the %Document% artifact gets the
  LEFT state. To make this condition valid you should define the %Document%
  parameter and optionally define the document template and the application to
  open the document.</description>
  <type>linkable</type>
  <link link="%Document%" />
  <state>LEFT</state>
  <event id="1530" />
</artifact>
- <artifact id="1531" identity="linkable1" name="Document is LEFT SPECIAL">
  <description>The condition becomes true when the %Document% artifact gets the
  LEFT SPECIAL state. To make this condition valid you should define the
  %Document% parameter and optionally define the document template and the
  application to open the document.</description>
  <type>linkable</type>
  <link link="%Document%" />
  <state>LEFT SPECIAL</state>
  <event id="1532" />
</artifact>
- <artifact id="1533" identity="linkable1" name="Document is RIGHT">
  <description>The condition becomes true when the %Document% artifact gets the
  RIGHT state. To make this condition valid you should define the %Document%
  parameter and optionally define the document template and the application to
  open the document.</description>
  <type>linkable</type>
  <link link="%Document%" />
  <state>RIGHT</state>
  <event id="1534" />
</artifact>
- <artifact id="1535" identity="linkable1" name="Document is APPROVED">
  <description>The condition becomes true when the %Document% artifact gets the
  APPROVED state. To make this condition valid you should define the
  %Document% parameter and optionally define the document template and the
  application to open the document.</description>
  <type>linkable</type>
  <link link="%Document%" />
  <state>APPROVED</state>
  <event id="1536" />
</artifact>

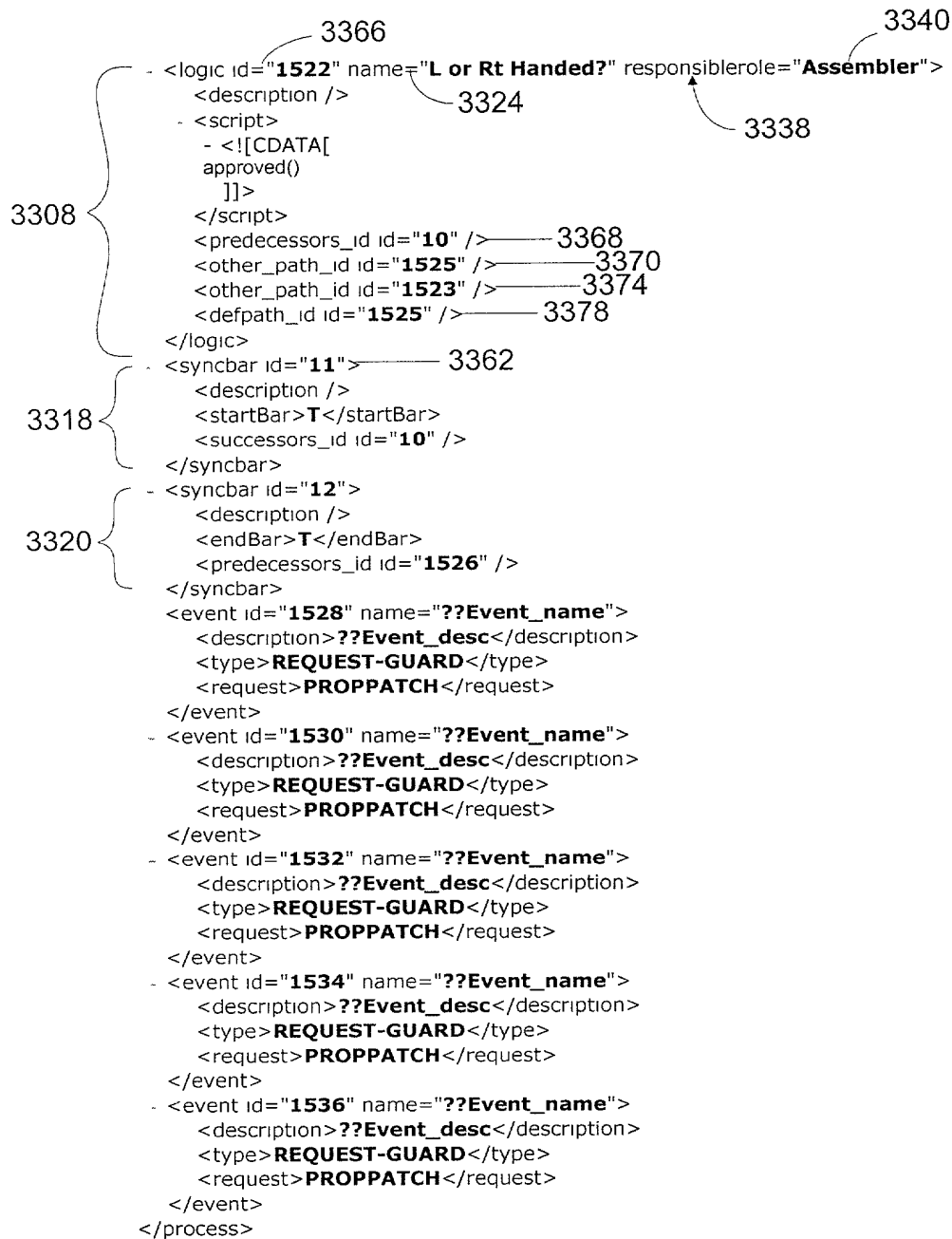
```

3395

3397 3398

3399

# FIG. 33C



# FIG. 34

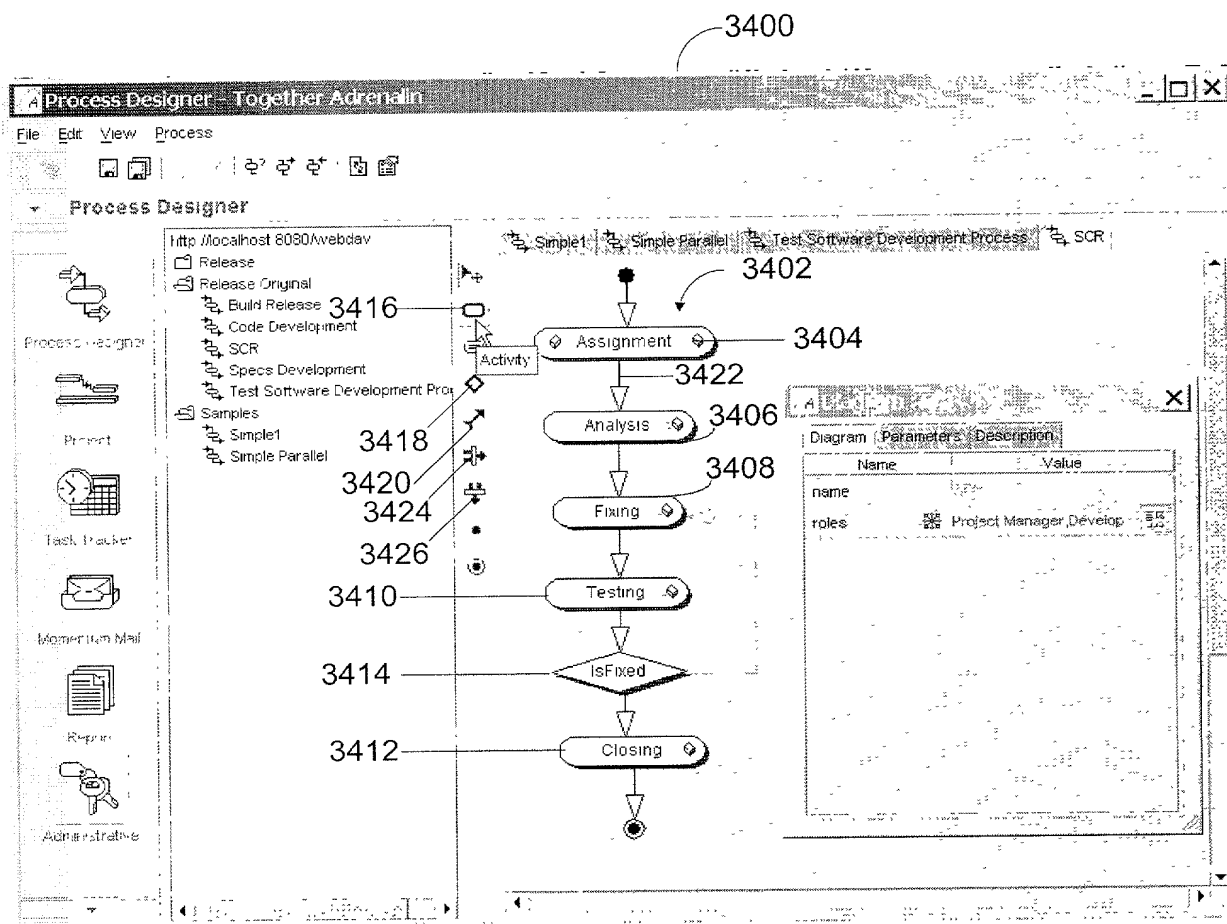
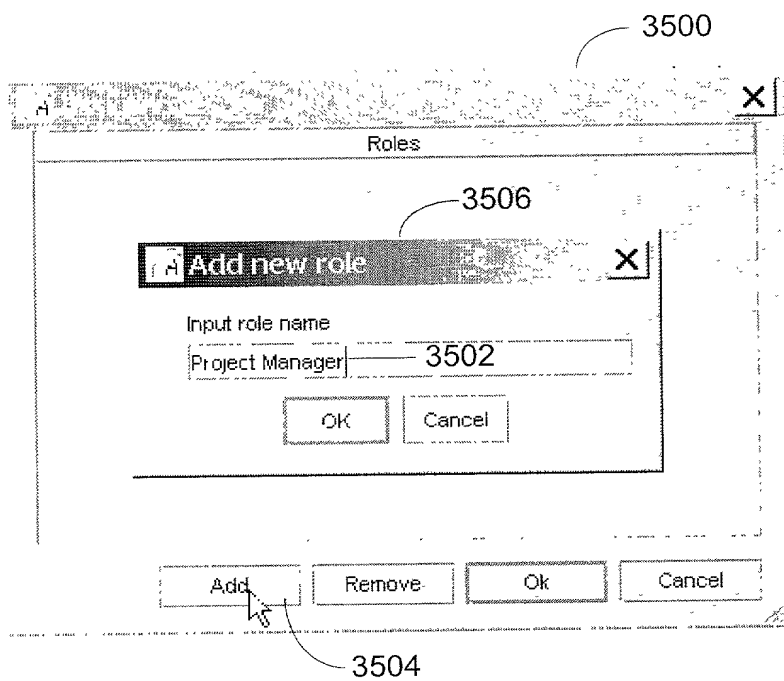
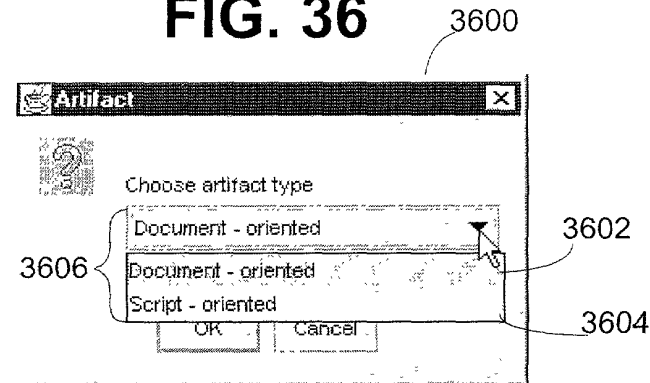


FIG. 35



# FIG. 36



# FIG. 37

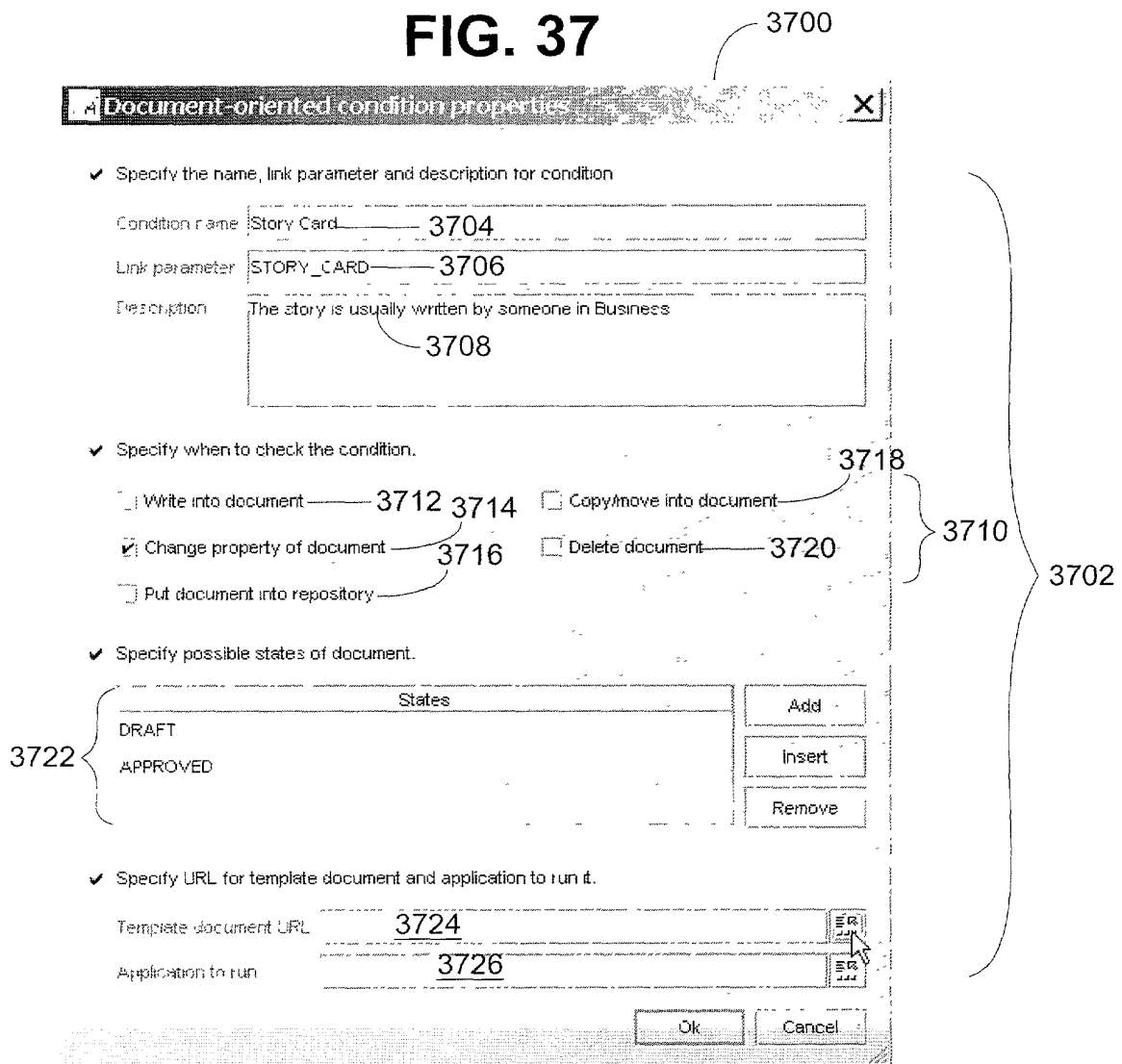


FIG. 38

3800

**Script-oriented condition properties** [X]

✓ Specify the name and description for condition.

Condition name

Description  3806

✓ Specify when to check the condition.

☐ \* Absolute time 3810

☐ Period 3812

☐ \* Url change 3814

☒ \* Task change 3816

☐ Any http request 3818

\* - values for these items will be assigned at planning phase.

3808 {

✓ Define script parameters and content 3822

Name	Value	Add

3824

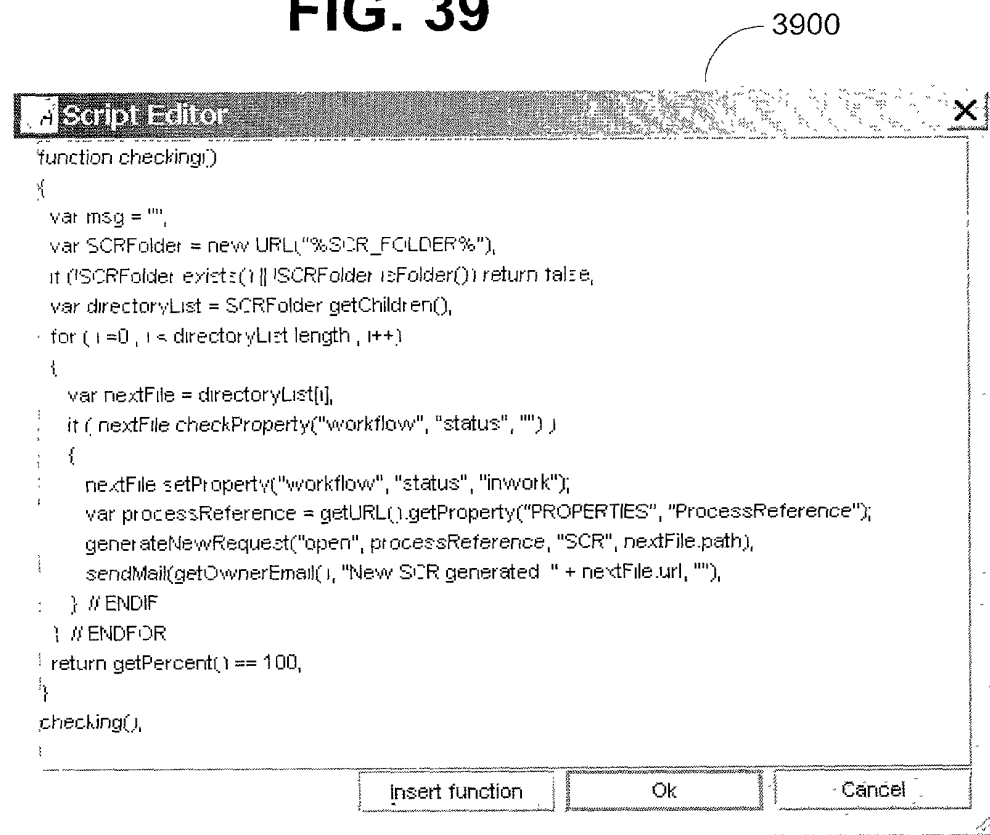
Script content  3826

3828

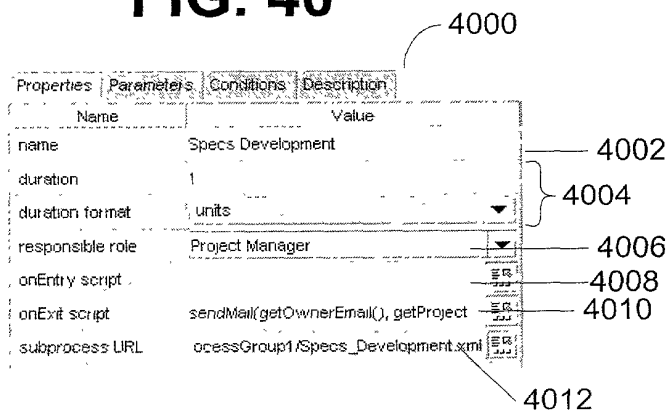
Ok Cancel

3802 {

# FIG. 39

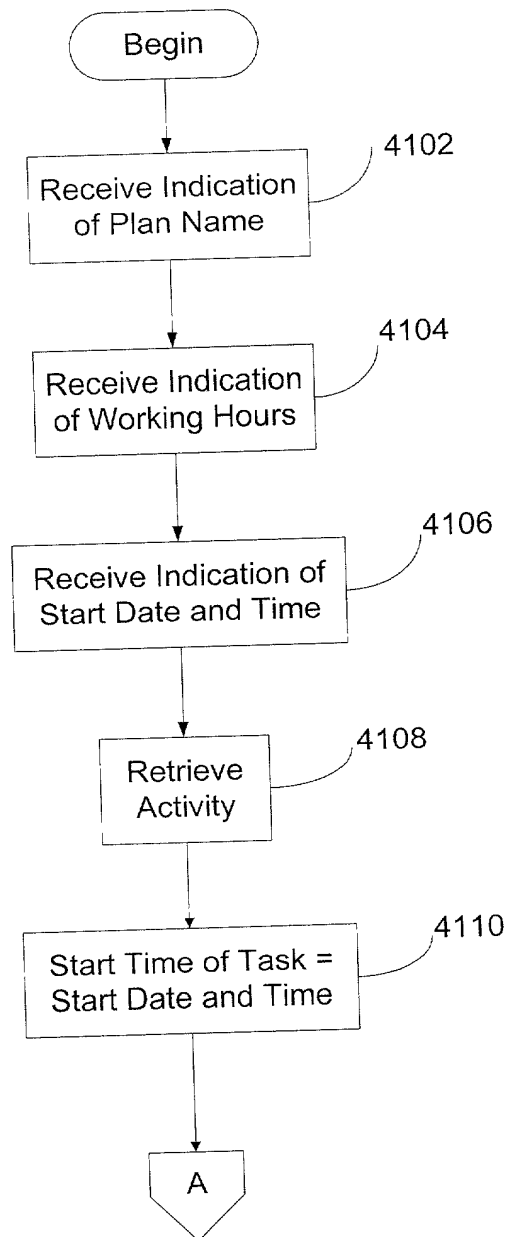


# FIG. 40

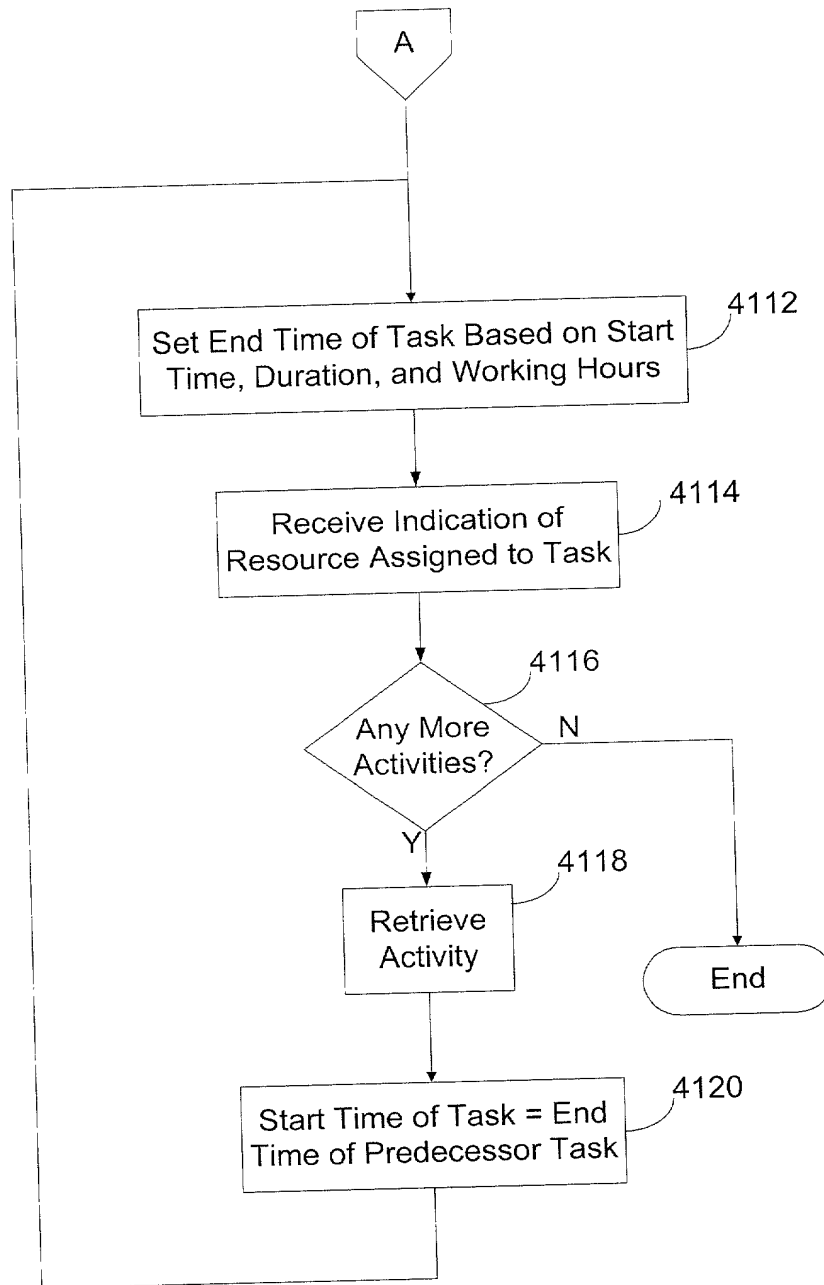




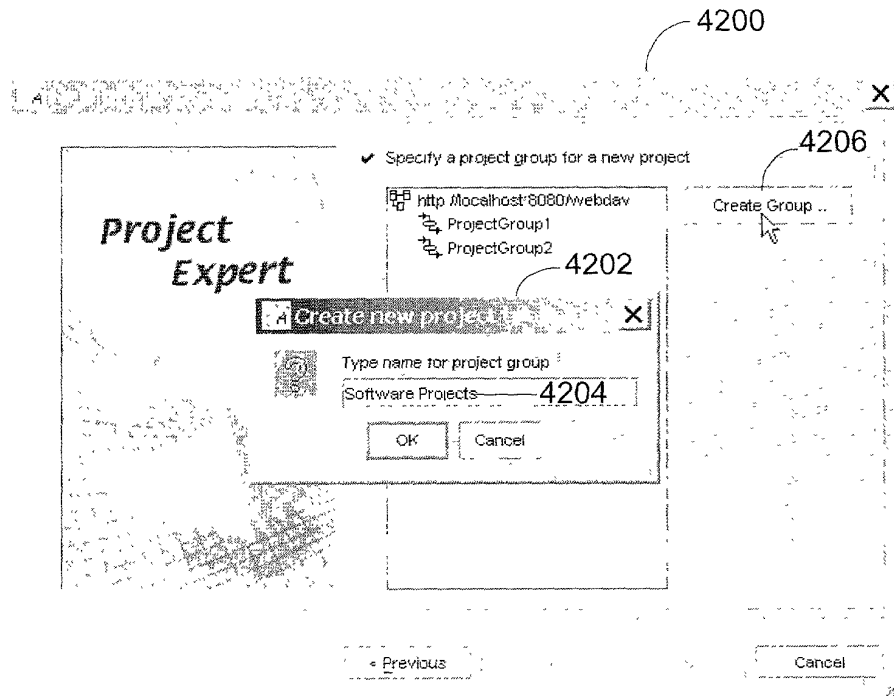
**FIG. 41A**



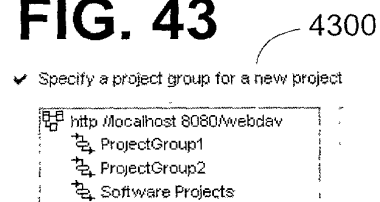
**FIG. 41B**



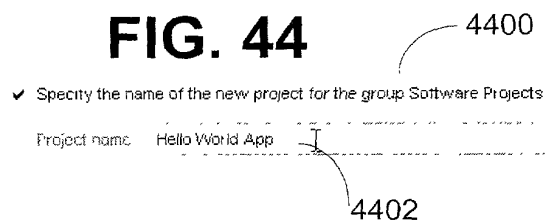
# FIG. 42



# FIG. 43



# FIG. 44



# FIG. 45

4500

✓ Specify timetable for project

4502 { Select Timetable template

4504 • Standard Timetable Intensive Timetable 4520

24 Hours 4518

Working Days

4510 4508 4512 4514 4516

4506 { Sunday  
Monday  
Tuesday  
Wednesday  
Thursday  
Friday  
Saturday

Working Hours

# FIG. 46

4600

✓ Specify start and finish dates of the project

Start date (mm/dd/yy) 7/2/2001 9AM 4602

Finish date (mm/dd/yy) 8/10/2001 5PM 4604

Edit Work Calendar...

# FIG. 47

4700

```

<?xml version="1.0" encoding="UTF-8" ?>
<process group="" name="Serial & Parallel">
  <description />
  <role name="Worker" />
  <activity id="10" name="Serial 1" responsiblerole="Worker">
    <description />
    <defduration units="hours" value="9" /> 4704
    <predecessors_id id="11" />
    <successors_id id="1522" />
  </activity>
  <activity id="1523" name="Parallel 1" responsiblerole="Worker">
    <description />
    <defduration units="hours" value="24" /> 4710
    <predecessors_id id="1522" />
    <successors_id id="1525" />
  </activity>
  <activity id="1524" name="Parallel 2" responsiblerole="Worker">
    <description />
    <defduration units="hours" value="24" /> 4712
    <predecessors_id id="1522" />
    <successors_id id="1525" />
  </activity>
  <activity id="1526" name="Serial 2" responsiblerole="Worker">
    <description />
    <defduration units="hours" value="24" /> 4716
    <predecessors_id id="1525" />
    <successors_id id="12" />
  </activity>
  <syncbar id="11">
    <description />
    <startBar>T</startBar>
    <successors_id id="10" />
  </syncbar>
  <syncbar id="12">
    <description />
    <endBar>T</endBar>
    <predecessors_id id="1526" />
  </syncbar>
  <syncbar id="1522" name="SyncBarH1">
    <description />
    <predecessors_id id="10" />
    <successors_id id="1523" />
    <successors_id id="1524" />
  </syncbar>
  <syncbar id="1525" name="SyncBarH2">
    <description />
    <predecessors_id id="1523" />
    <predecessors_id id="1524" />
    <successors_id id="1526" />
  </syncbar>
</process>

```

4700 4704 4710 4712 4716

# FIG. 48

4800

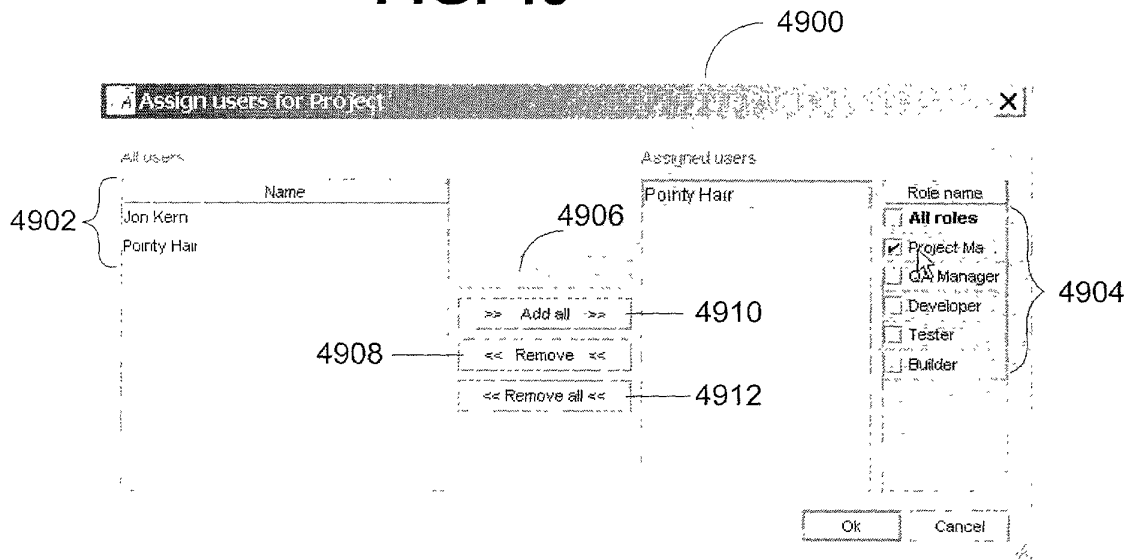
```

<?xml version="1.0" encoding="UTF-8" ?>
<A:plan name="Serial_And_Parallel" userid="JK" xmlns:A="workflow">
  <A:description>
    <![CDATA[
      No Description
    ]]>
  </A:description>
  <A:task activityID="10" caption="Serial 1"
    link="Sample_Project_Plans/Serial_And_Parallel/Task_2.xml" name="Task_2"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 9</A:start> 4804
    <A:finish>2001 8 1 18</A:finish> 4806
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:successor name="Task_3" />
    <A:successor name="Task_4" />
  </A:task>
  <A:task activityID="1523" caption="Parallel 1"
    link="Sample_Project_Plans/Serial_And_Parallel/Task_3.xml" name="Task_3"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 18</A:start> 4812
    <A:finish>2001 8 2 18</A:finish> 4816
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_2" />
    <A:successor name="Task_5" />
  </A:task>
  <A:task activityID="1524" caption="Parallel 2"
    link="Sample_Project_Plans/Serial_And_Parallel/Task_4.xml" name="Task_4"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 18</A:start> 4814
    <A:finish>2001 8 2 18</A:finish> 4818
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_2" />
    <A:successor name="Task_5" />
  </A:task>
  <A:task activityID="1526" caption="Serial 2"
    link="Sample_Project_Plans/Serial_And_Parallel/Task_5.xml" name="Task_5"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 2 18</A:start> 4822
    <A:finish>2001 8 3 18</A:finish> 4824
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_3" />
    <A:predecessor name="Task_4" />
  </A:task>
  <A:task activityID="NONE" caption="Serial And Parallel"
    link="Sample_Project_Plans/Serial_And_Parallel/Task_1.xml" name="Task_1"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 8</A:start>
    <A:finish>2001 8 3 18</A:finish>
    <A:user>JK</A:user>
    <A:subtask name="Task_2" />
  </A:task>
</A:plan>

```

4800 4802 4808 4810 4820

# FIG. 49



# FIG. 50

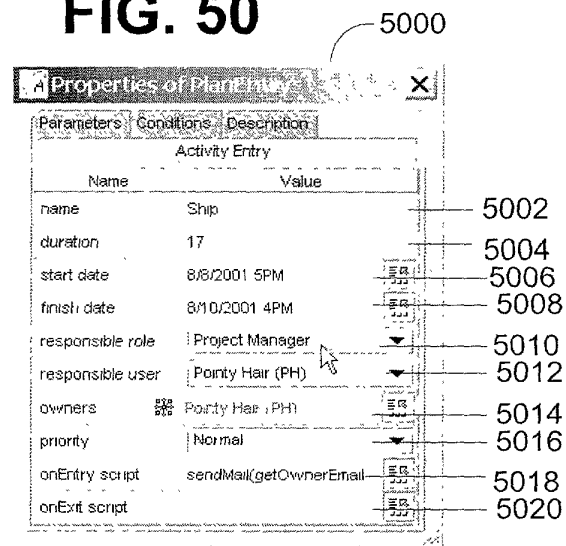


FIG. 51

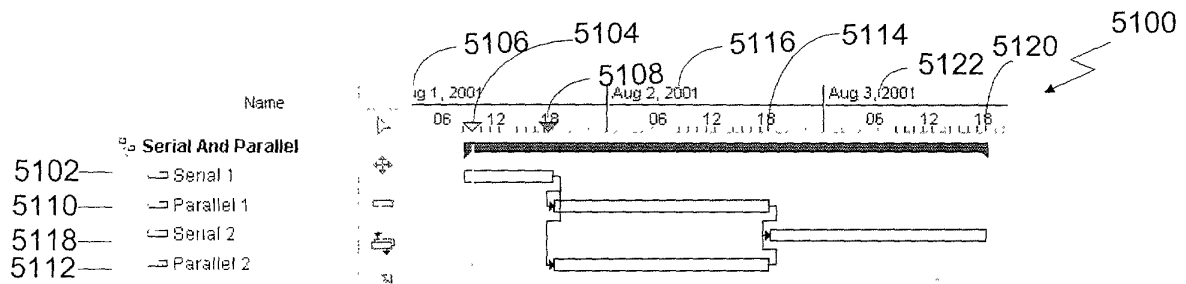
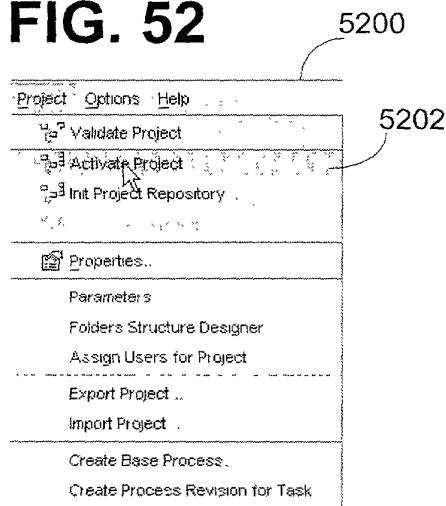
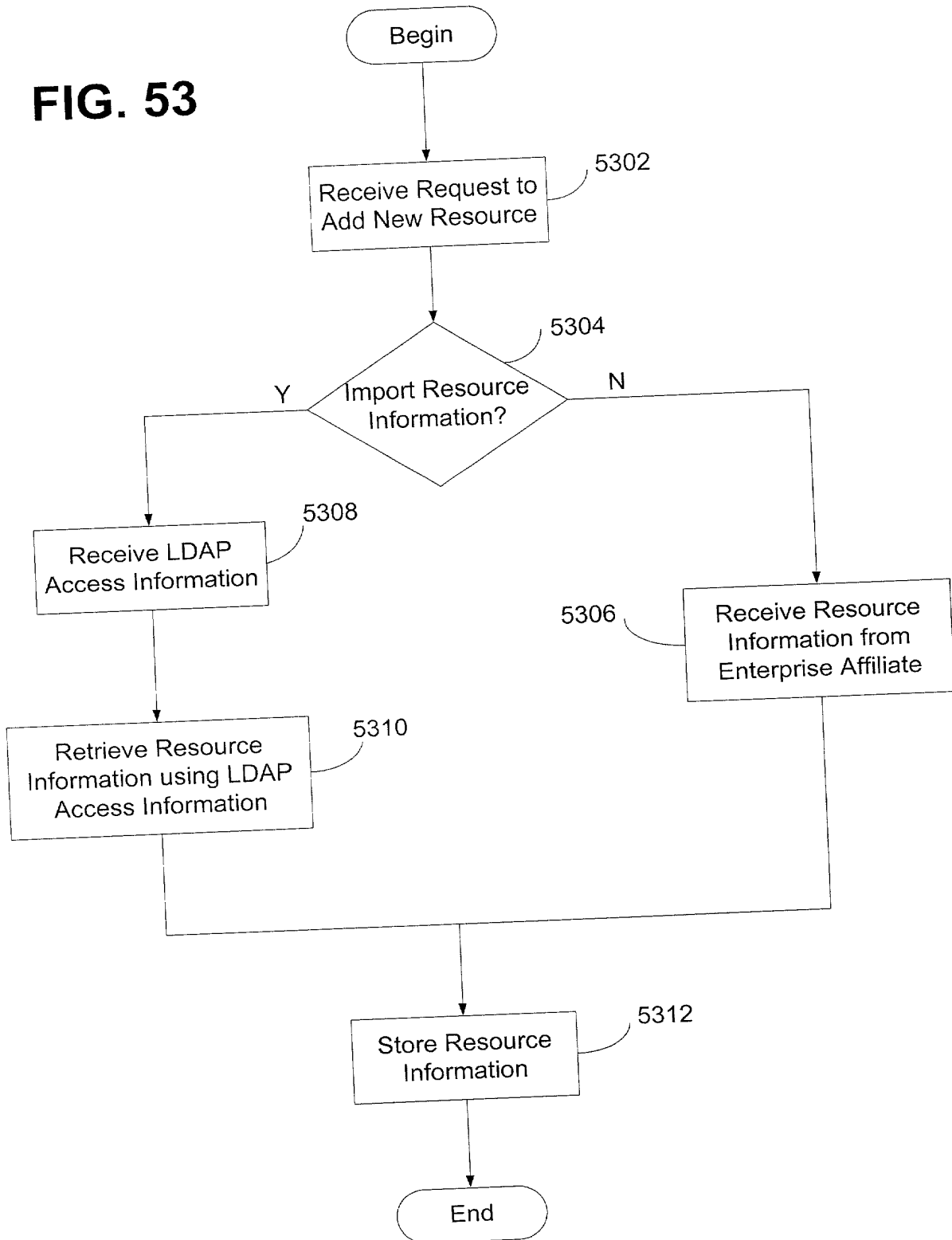


FIG. 52

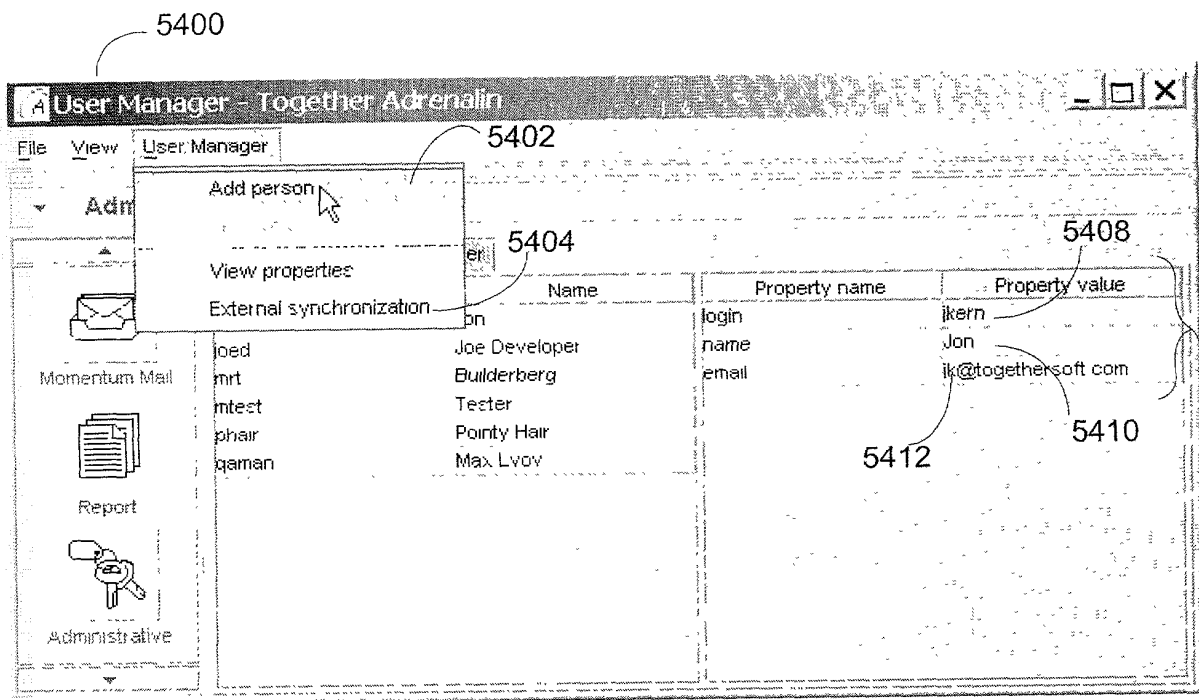




**FIG. 53**



# FIG. 54



5406

FIG. 55

5500

External synchronization

New: 389

5502 { LDAP Server — 5504 frodo

LDAP Port — 5506 389

People DN — 5508 OU=LOCAL USERS, DC=amazosoft, DC=com

☐ Use password

Security DN — 5510

Password — 5512

Login alias — 5514 mlogin

Add Remove Save Close Synchronize

FIG. 56

5600

<?xml version="1.0" encoding="UTF-8" ?>  
- <users>  
  <user>  
    <id>**PH**</id>  
    <name>**Pointy Hair**</name>  
    <email>**ph@company.com**</email>  
    <password>**ZGV364==**</password>  
    url= "Software\_Projects/Hello-World\_App/Users\_1.xml"  
  </user>  
  <user>  
    <id>**MQ**</id>  
    <name>**Mister Quality**</name>  
    <email>**mq@company.com**</email>  
    <password>**ZGV636==**</password>  
    url= "Software\_Projects/Hello-World\_App/Users\_1.xml"  
  </user>  
  <user>  
    <id>**MB**</id>  
    <name>**Mister Build**</name>  
    <email>**mb@company.com**</email>  
    <password>**ZGV835==**</password>  
    url= "Software\_Projects/Hello-World\_App/Users\_1.xml"  
  </user>  
  <user>  
    <id>**MT**</id>  
    <name>**Mister Tee**</name>  
    <email>**mt@company.com**</email>  
    <password>**ZGV470==**</password>  
    url= "Software\_Projects/Hello-World\_App/Users\_1.xml"  
  </user>  
</users>

**FIG. 57A**

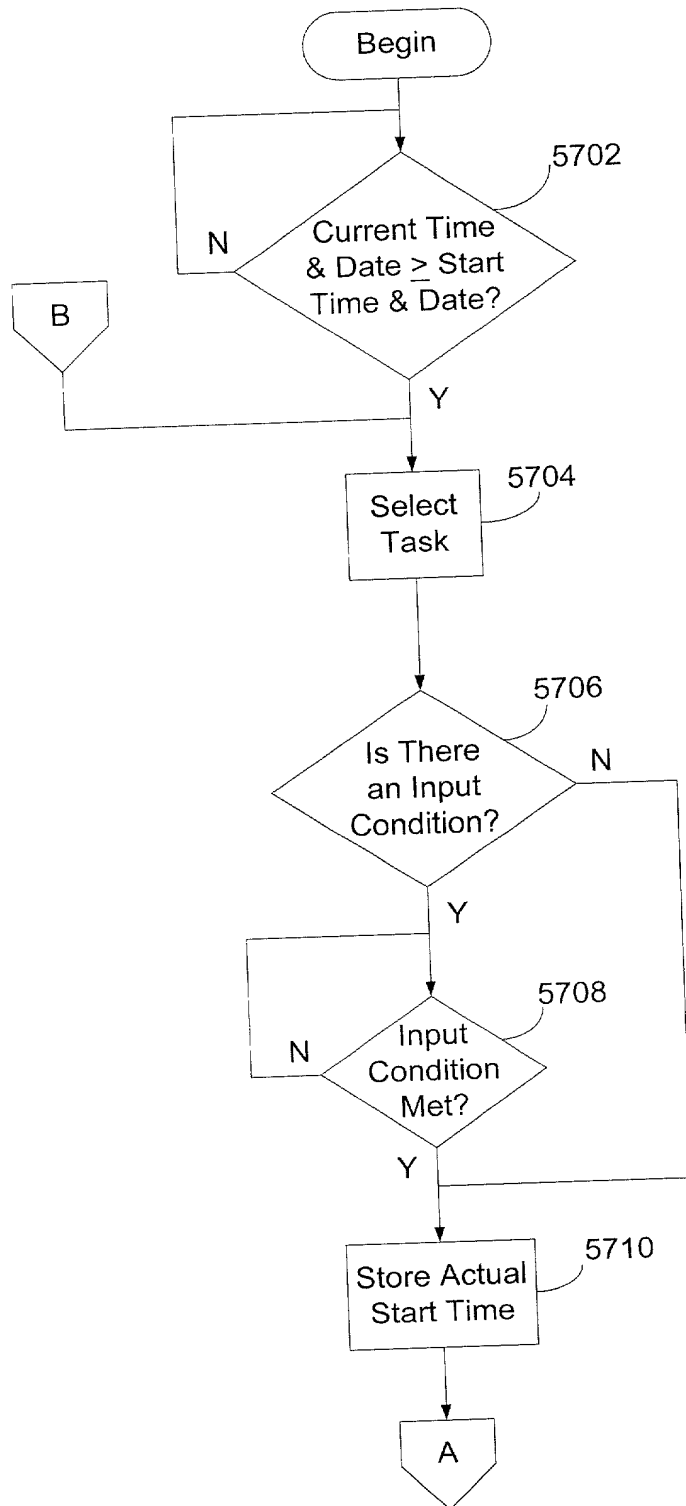
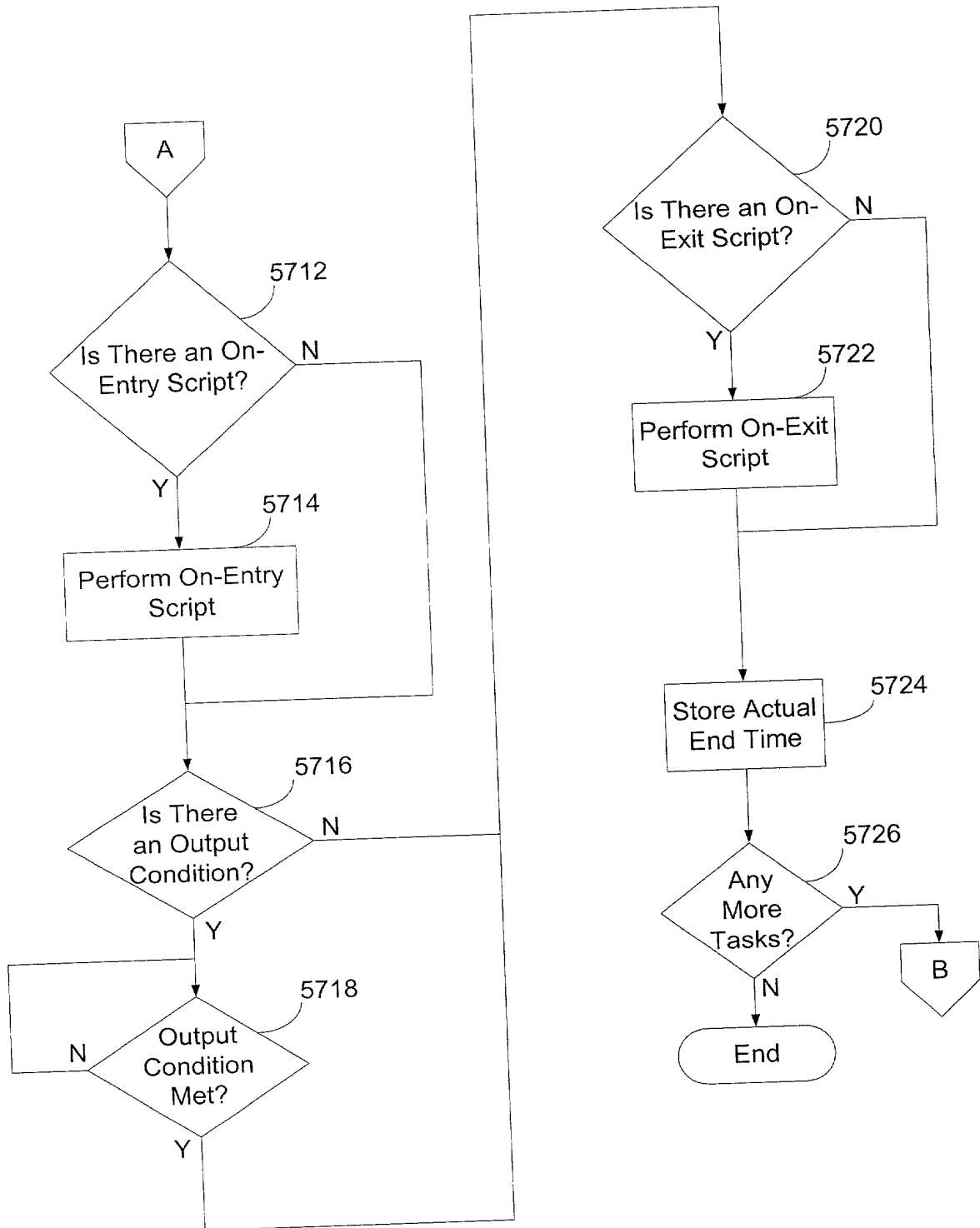
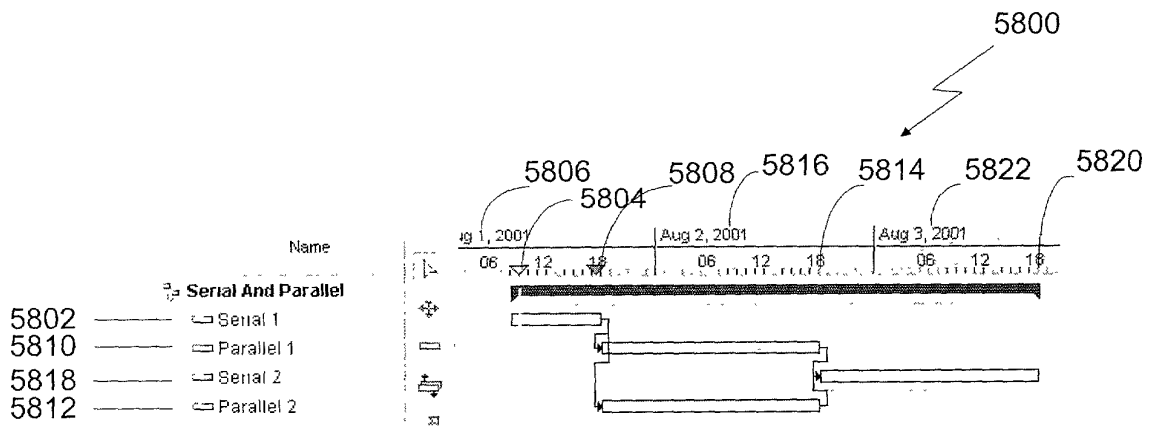


FIG. 57B



# FIG. 58



# FIG. 59

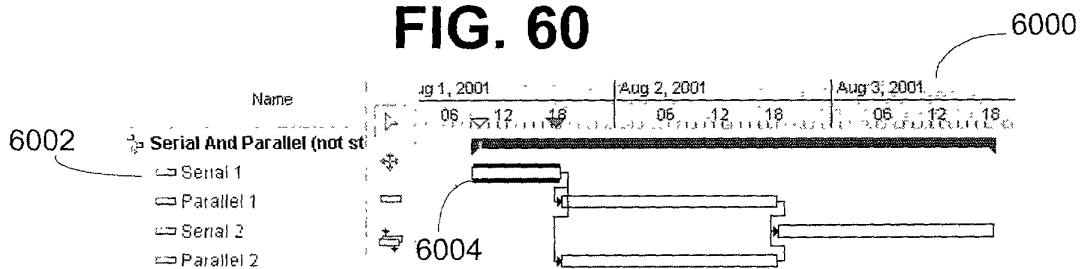
5900

```
<?xml version="1.0" encoding="UTF-8" ?>
- <A:plan name="Serial_And_Parallel" userid="JK" xmlns:A="workflow">
  - <A:description>
    - <![CDATA[
      No Description
    ]]>
  </A:description>
  - <A:task activityID="10" caption="Serial 1">
    link="Sample_Project_Plans/Serial_And_Parallel/Task_2.xml" name="Task_2"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 8</A:start>
    <A:finish>2001 8 1 18</A:finish>
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:successor name="Task_3" />
    <A:successor name="Task_4" />
  </A:task>
  - <A:task activityID="1523" caption="Parallel 1">
    link="Sample_Project_Plans/Serial_And_Parallel/Task_3.xml" name="Task_3"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 18</A:start>
    <A:finish>2001 8 2 18</A:finish>
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_2" />
    <A:successor name="Task_5" />
  </A:task>
  - <A:task activityID="1524" caption="Parallel 2">
    link="Sample_Project_Plans/Serial_And_Parallel/Task_4.xml" name="Task_4"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 18</A:start>
    <A:finish>2001 8 2 18</A:finish>
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_2" />
    <A:successor name="Task_5" />
  </A:task>
  - <A:task activityID="1526" caption="Serial 2">
    link="Sample_Project_Plans/Serial_And_Parallel/Task_5.xml" name="Task_5"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 2 18</A:start>
    <A:finish>2001 8 3 18</A:finish>
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_3" />
    <A:predecessor name="Task_4" />
  </A:task>
  - <A:task activityID="NONE" caption="Serial And Parallel">
    link="Sample_Project_Plans/Serial_And_Parallel/Task_1.xml" name="Task_1"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 8</A:start>
    <A:finish>2001 8 3 18</A:finish>
    <A:user>JK</A:user>
    <A:subtask name="Task_2" />
```

FIG. 59



# FIG. 60



# FIG. 61

```

<?xml version="1.0" encoding="UTF-8" ?>
<A:FilePropertyMap xmlns:A="adrenalin:">
  <A:factstart xmlns:A="workflow">2001 8 1 9</A:factstart>
  <A:factfinish xmlns:A="workflow">2001 8 1 14</A:factfinish>
  <A:ProjectTask xmlns:A="Serial 1" />
</A:FilePropertyMap>
  
```

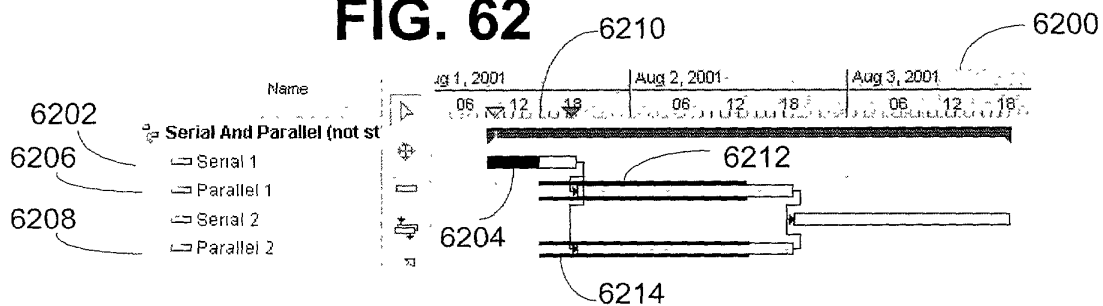
6100

6104

6102

6106

# FIG. 62



# FIG. 63

```

<?xml version="1.0" encoding="UTF-8" ?>
<A:FilePropertyMap xmlns:A="adrenalin:">
  <A:factstart xmlns:A="workflow">2001 8 1 14</A:factstart>
  <A:factfinish xmlns:A="workflow">2001 8 2 0</A:factfinish>
  <A:ProjectTask xmlns:A="Parallel 1" />
  <A:ProjectTask xmlns:A="Parallel 2" />
</A:FilePropertyMap>
  
```

6300

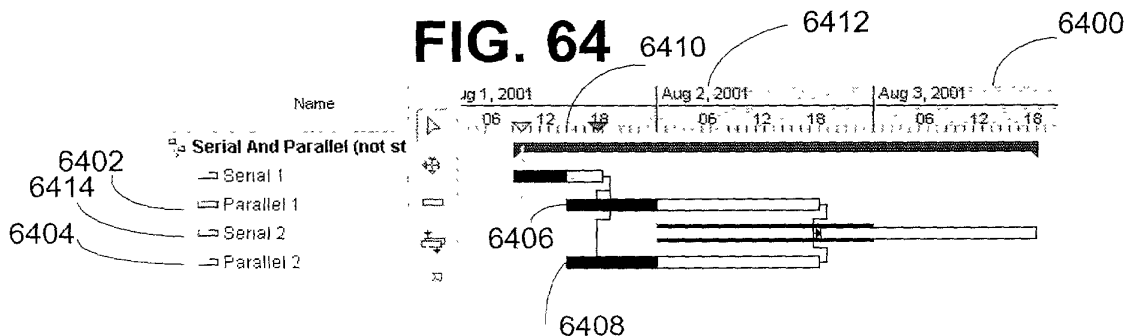
6306

6308

6302

6304

# FIG. 64



**FIG. 65**

6500

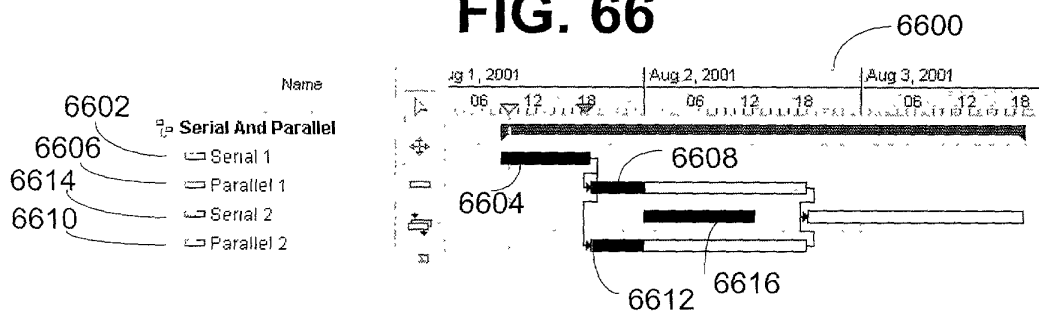
```
<?xml version="1.0" encoding="UTF-8" ?>
- <A:FilePropertyMap xmlns:A="adrenalin:">
  <A:factstart xmlns:A="workflow">2001 8 2 0</A:factstart>
  <A:factfinish xmlns:A="workflow">2001 8 2 12</A:factfinish>
  <A:ProjectTask xmlns:A="Serial 2" />
</A:FilePropertyMap>
```

6504

6506

6502

**FIG. 66**



**FIG. 67A**

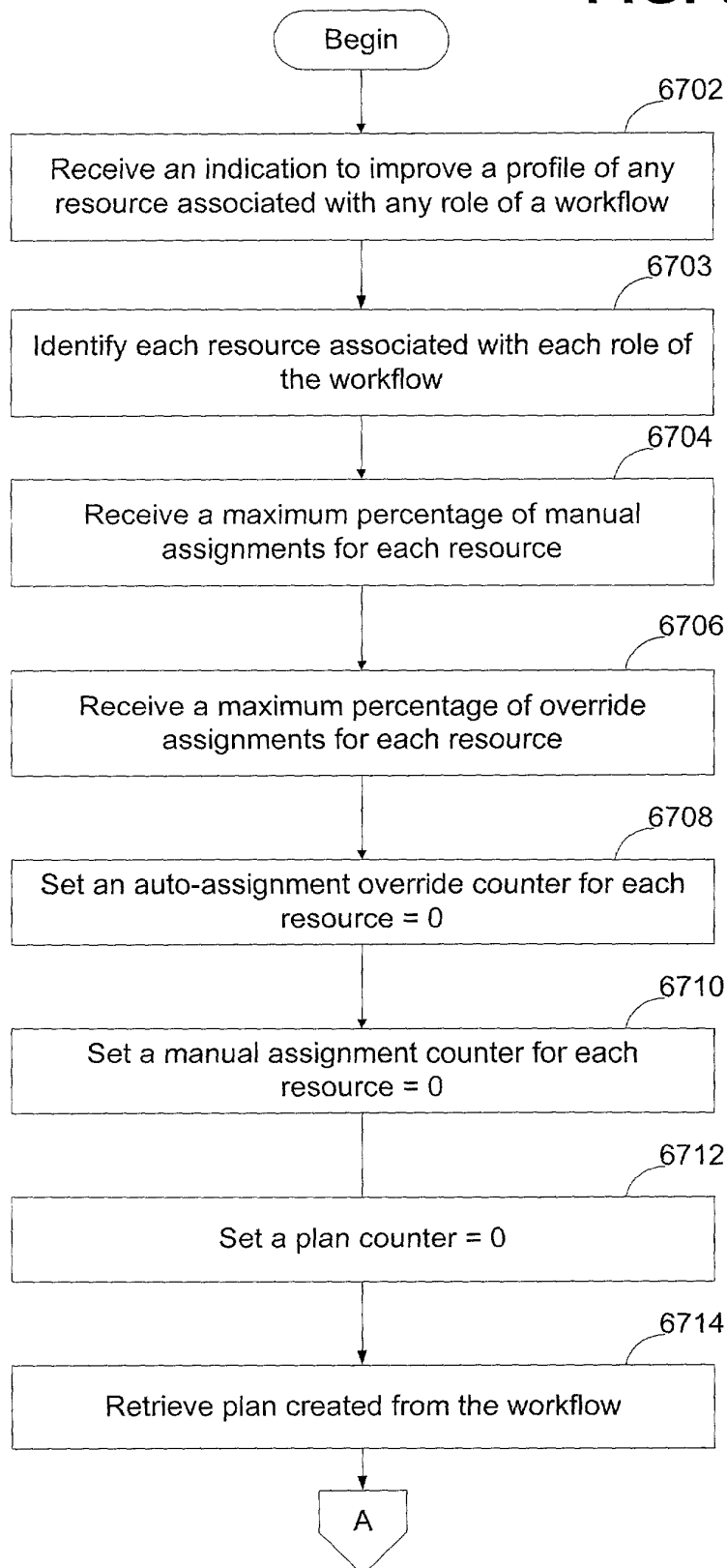
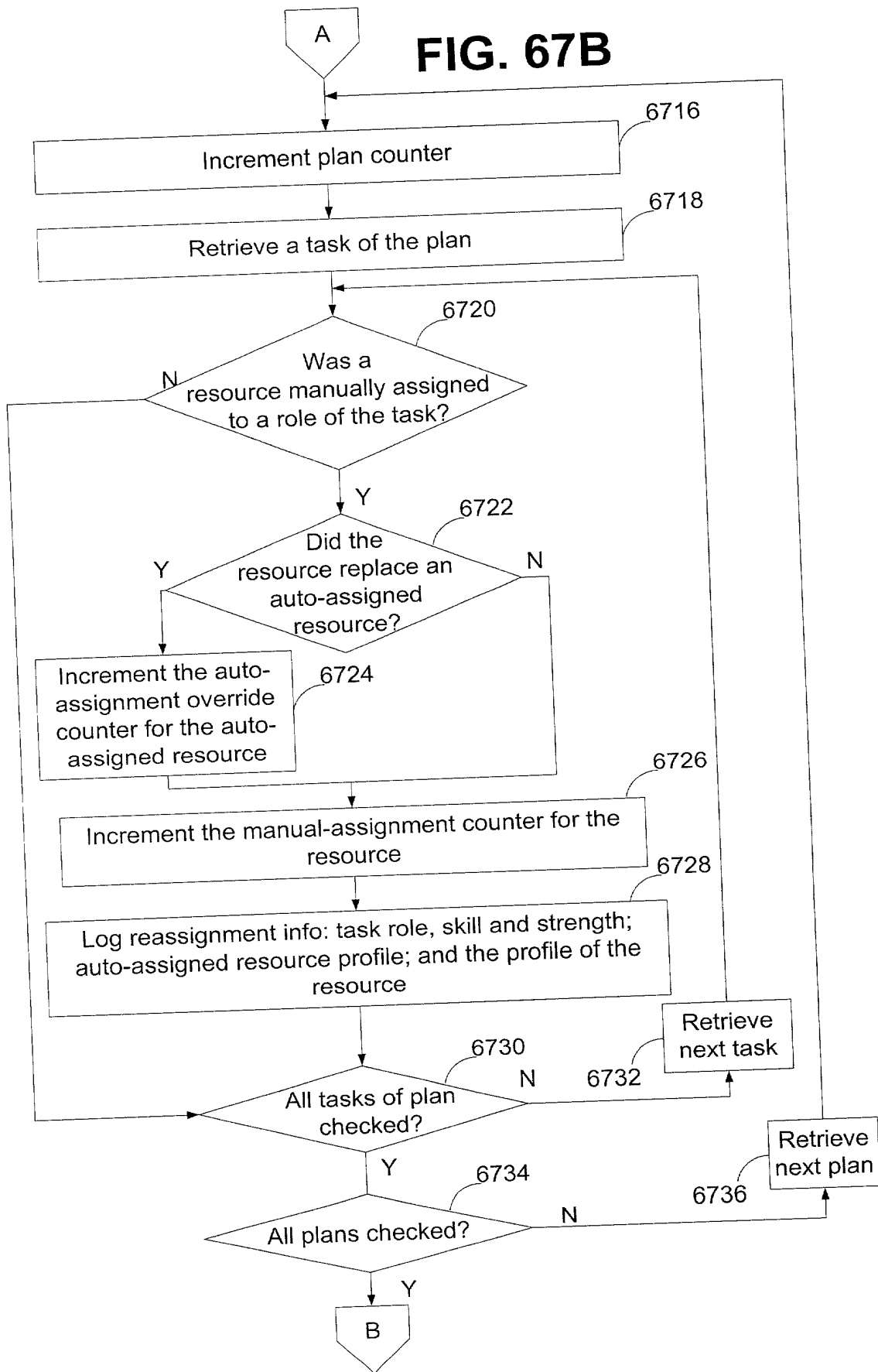


FIG. 67B



**FIG. 67C**

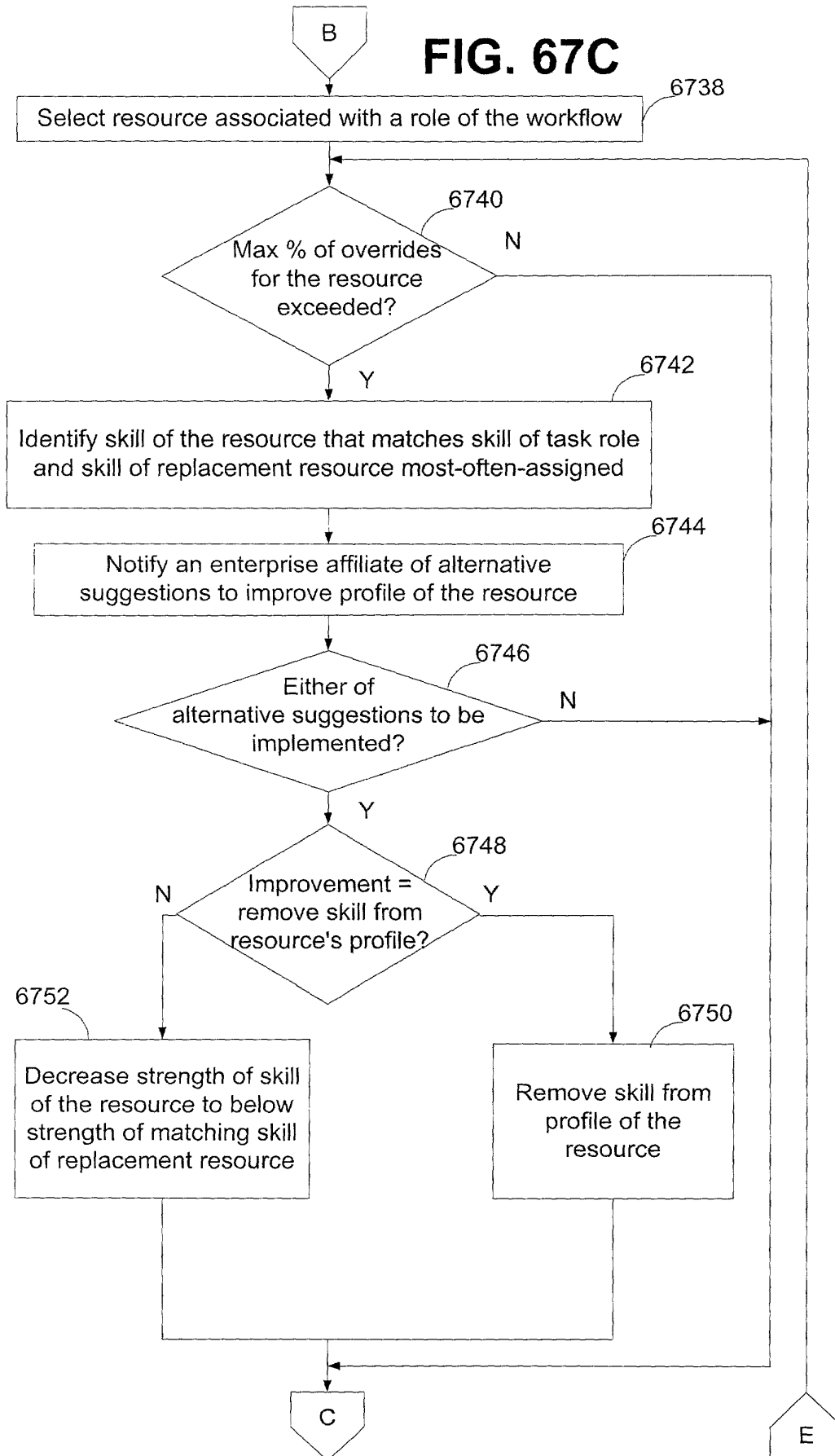


FIG. 67D

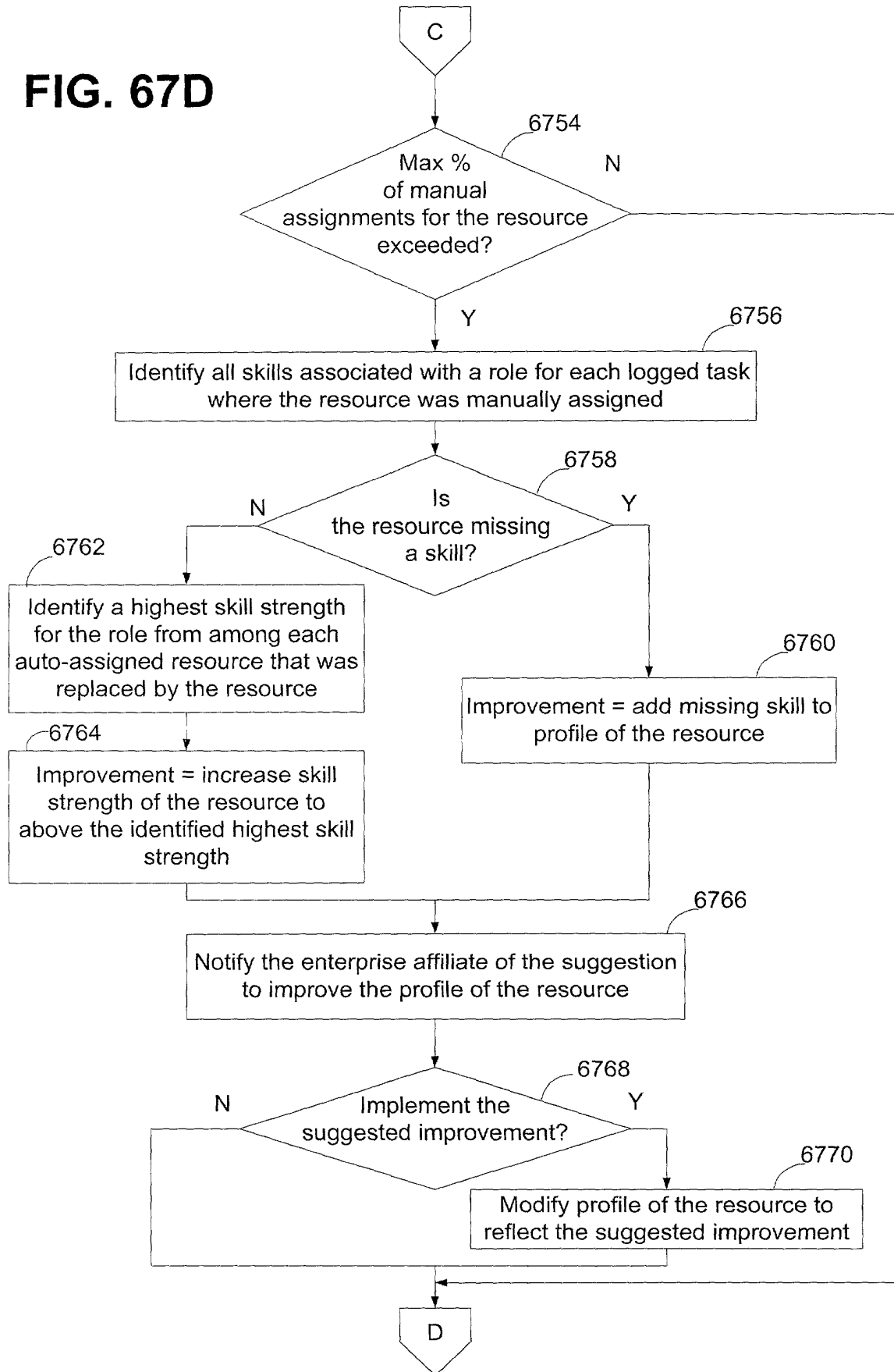
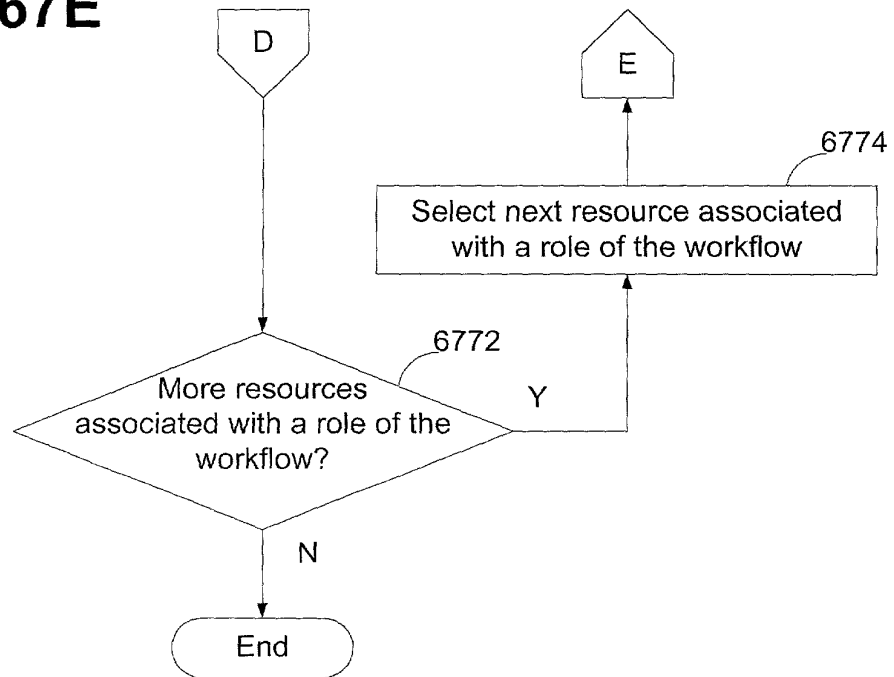


FIG. 67E



# FIG. 68

6800

```

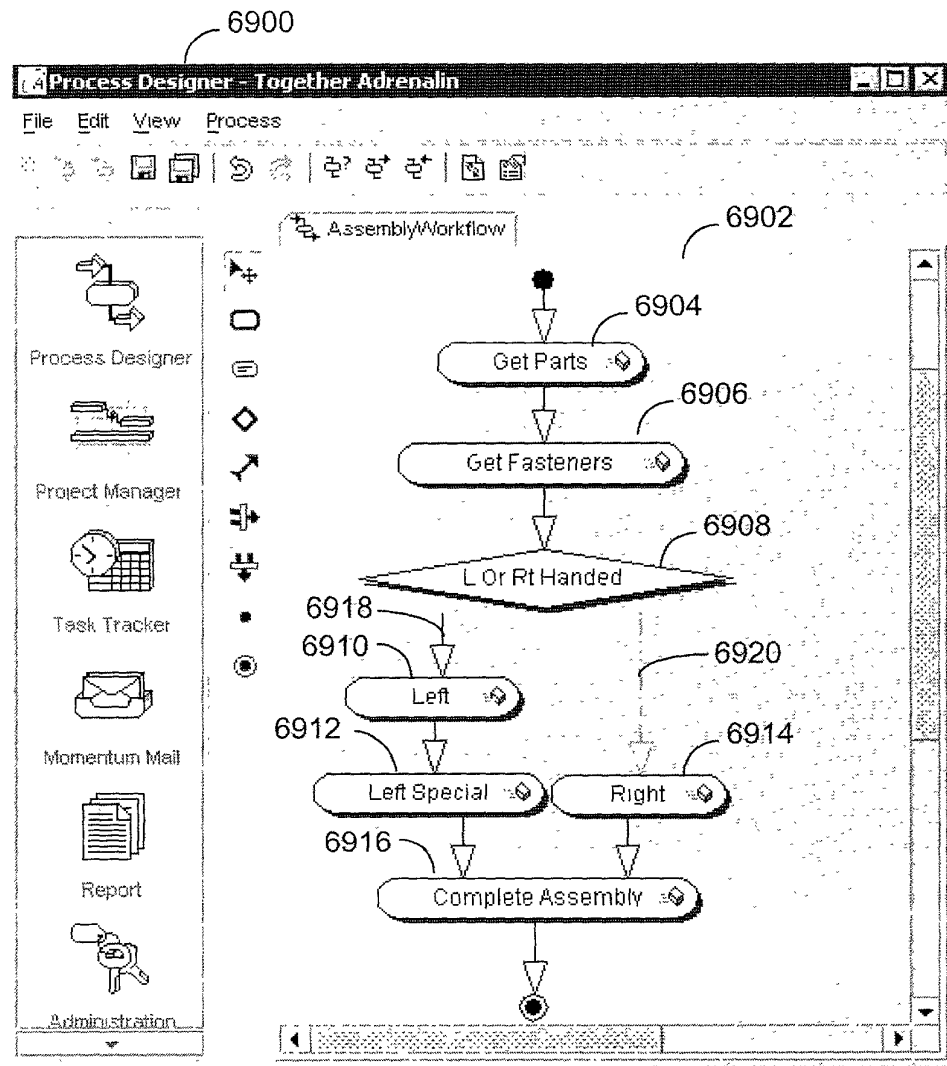
<?xml version="1.0" encoding="UTF-8" ?>
<process group="" name="AssemblyWorkflow">
  <description />
  <role name="Assembler" />
  <activity id="10" name="Get Parts" responsible="Gopher" optimize="yes" minplans="5" max-
    percentage="10">
    <description />
    <defduration units="units" value="1" tolerance="1" optimize="yes" minplans="5" max-
    percentage="10"/>
    <predecessors_id id="11" />
    <successors_id id="55" optimize="yes" minplans="5" max-percentage="5"/>
    <out_artifacts id="1527" />
  </activity>
  <activity id="51" name="Left" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="50" />
    <successors_id id="54" />
    <out_artifacts id="1529" />
  </activity>
  <activity id="54" name="Left Special" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="51" />
    <successors_id id="53" />
    <out_artifacts id="1531" />
  </activity>
  <activity id="52" name="Right" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="50" />
    <successors_id id="53" />
    <out_artifacts id="1533" />
  </activity>
  <activity id="53" name="Complete Assembly" responsible="Master Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="54" />
    <predecessors_id id="52" />
    <successors_id id="12" />
    <out_artifacts id="1535" />
  </activity>
  <activity id="55" name="Get Fasteners" responsible="Gopher">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="10" />
    <successors_id id="50" />
    <out_artifacts id="1536" />
  </activity>
  <logic id="50" name="L Or Rt Handed?" responsible="Assembler">
    <description />
    <script>
      - <![CDATA[
        approved()
      ]]>
    </script>
    <predecessors_id id="55" />
    <other_path_id id="52" />
    <other_path_id id="51" />
    <defpath_id id="52" />
  </logic>

```

FIG. 68



FIG. 69



**FIG. 70**

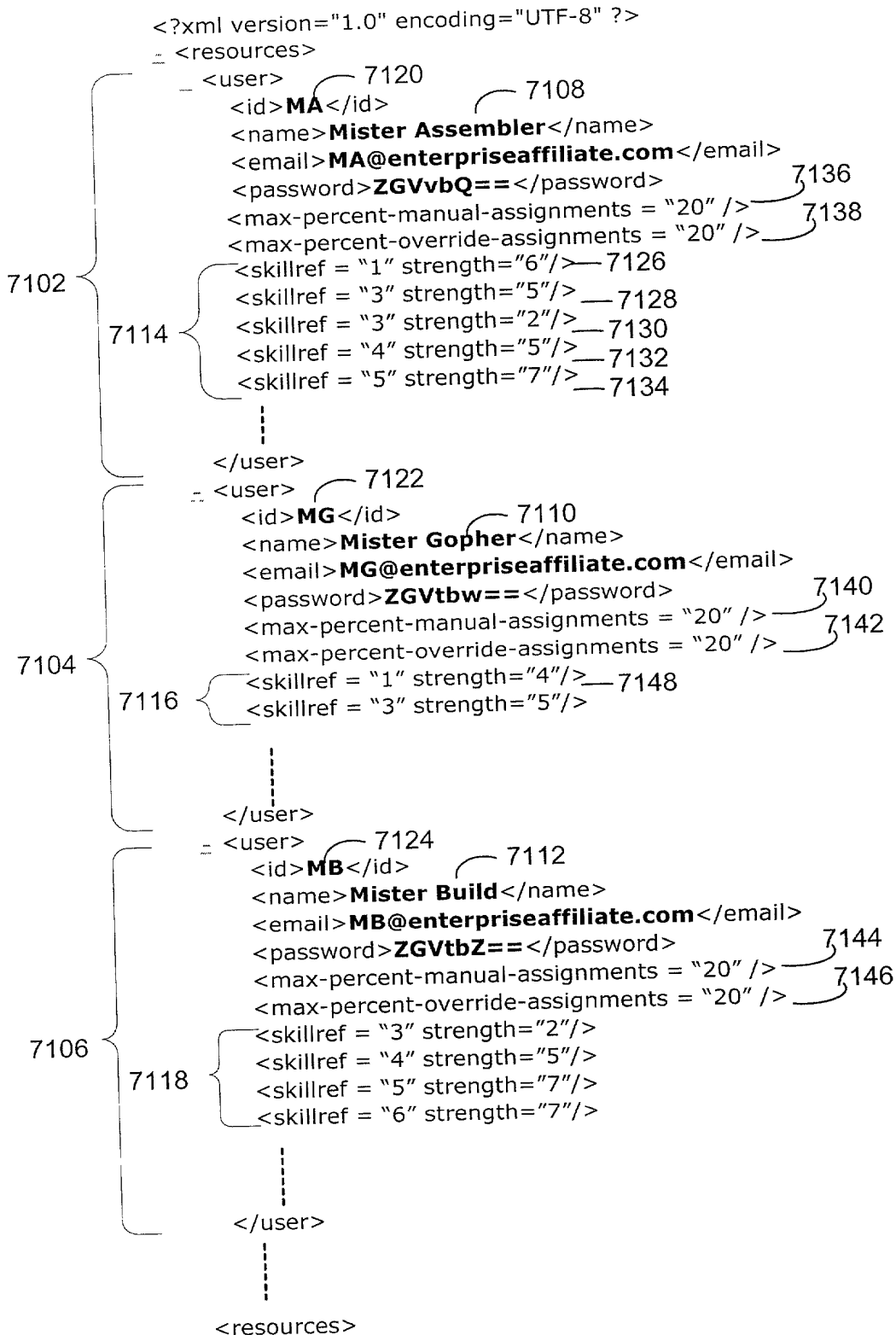
# FIG. 70

```

7000 <?xml version="1.0" encoding="UTF-8" ?>
7002 <workflow roles = "" name = "AssemblyWorkflow"
7004 processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml" >
7006 <role>
7012 <id>1</id>
7012 <name>Gopher</name>
7024 <capable resources>
7038 <userid = "MA"/>
7040 <userid = "MG"/>
7029 <skillref = "1" strength="4"/>
7018 <skillref = "2" strength="5"/>
7030
7006 </role>
7008 <role>
7014 <id>2</id>
7014 <name>Assembler</name>
7026 <capable resources>
7038 <userid = "MA"/>
7042 <userid = "MB"/>
7032 <skillref = "3" strength="5"/>
7020 <skillref = "4" strength="5"/>
7036 <skillref = "5" strength="5"/>
7008 </role>
7010 <role>
7016 <id>3</id>
7016 <name>Master Assembler</name>
7028 <capable resources>
7042 <userid = "MB"/>
7022 <skillref = "3" strength="5"/>
7022 <skillref = "4" strength="5"/>
7022 <skillref = "5" strength="7"/>
7022 <skillref = "6" strength="7"/>
7010 </role>
7010 </workflow roles />
  
```

# FIG. 71

7100



**FIG. 72**

7200 ↘

```
<?xml version="1.0" encoding="UTF-8" ?>
<role&resource skills>
  7202 { <skill name "enterprise procurement logistics">
        { <id>1</id>
          </skill>
        }
  }
  7204 { <skill name="Chicago plant receiving logistics">
        { <id>2</id>
          </skill>
        }
  }
  7206 { <skill name="electrostatic discharge training">
        { <id>3</id>
          </skill>
        }
  }
  7208 { <skill name "electrical schematic reading">
        { <id>4</id>
          </skill>
        }
  }
  7210 { <skill name="soldering">
        { <id>5</id>
          </skill>
        }
  }
  7212 { <skill name="machine deburring">
        { <id>6</id>
          </skill>
        }
  }
  7214 { <skill name="machine stitching">
        { <id>7</id>
          </skill>
        }
  }
  ...
</role&resource skills/>
```

FIG. 72

# FIG. 73A

7300

```
<?xml version="1.0" encoding="UTF-8" ?>
- <A:plan name="Logic_Branch_Project" userid="MA" xmlns:A="workflow">
  - <A:description>
    - <![CDATA[
      No Description
    ]]>
  - </A:description>
  - <A:task activityID="10" caption="Get Parts">
    link="Sample_Project_Plans/Logic_Branch_Project/Task_2.xml"
    name="Task_2"
    owner="Gopher"
    processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
    type="general"
    userid="MG">
    <A:start>2001 8 7 8</A:start>
    <A:finish>2001 8 7 10</A:finish>
    <A:supertask name="Task_1" />
    <A:user>MG</A:user>
    <A:resource assignment="Manual"/>
    <A:successor name="Task_20" />
    <A:output name="Artifact_3" />
    - <A:event caption="??Event_name" link="http://localhost:8080/webdav"
      method="PROPPATCH" name="Event_4" type="out">
      <A:description>
        - <![CDATA[
          ??Event_desc
        ]]>
      </A:description>
    </A:event>
  - </A:task>
  - <A:task activityID="50" caption="L Or Rt Handed?">
    link="Sample_Project_Plans/Logic_Branch_Project/Task_5.xml" name="Task_5"
    owner="Assembler"
    processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
    type="logic" userid="MA">
    <A:start>2001 8 7 11</A:start>
    <A:finish>2001 8 7 11</A:finish>
    <A:supertask name="Task_1" />
    <A:user>MA</A:user>
    <A:predecessor name="Task_20" />
    <A:successor name="Task_7" />
    <A:output name="Artifact_6" />
  - </A:task>
```



7310 7312 7316 7318 7326 7328

# FIG. 73B

```

7330 <A:task activityID="53" caption="Complete Assembly"
      link="Sample_Project_Plans/Logic_Branch_Project/Task_10.xml" name="Task_10"
      owner="Master Assembler"
      processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
      type="general" userid="MB">
      <A:start>2001 8 7 13</A:start>
      <A:finish>2001 8 7 14</A:finish>
      <A:supertask name="Task_1" />
      <A:user>MB</A:user>
      <A:predecessor name="Task_19" />
      <A:output name="Artifact_11" />
      <A:output name="Artifact_22" />
      <A:event caption="??Event_name" link="http://localhost:8080/webdav"
        method="PROPPATCH" name="Event_15" type="out">
        <A:description>
          ~ <![CDATA[
            ??Event_desc
          ]]>
        </A:description>
      </A:event>
      <A:event caption="??Event_name" link="http://localhost:8080/webdav"
        method="PROPPATCH" name="Event_23" type="out">
        <A:description>
          ~ <![CDATA[
            ??Event_desc
          ]]>
        </A:description>
      </A:event>
    </A:task>
7340 <A:task activityID="NONE" caption="Logic Branch Project"
      link="Sample_Project_Plans/Logic_Branch_Project/Task_1.xml" name="Task_1"
      processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
      type="general" userid="MA">
      <A:start>2001 8 7 8</A:start>
      <A:finish>2001 8 7 14</A:finish>
      <A:user>MA</A:user>
      <A:subtask name="Task_2" />
      <A:subtask name="Task_20" />
      <A:subtask name="Task_5" />
      <A:subtask name="Task_10" />
      <A:subtask name="Task_16" />
      <A:subtask name="Task_19" />
      <A:param name="Document" type="string">
        <A:value>
          ~ <![CDATA[
            document.txt
          ]]>
        </A:value>
      </A:param>
    </A:task>
  
```

7330 7340

7304

7306

7308

7302

# FIG. 73C

7350 {  
 <A:task activityID="51" caption="Left"  
 link="Sample\_Project\_Plans/Logic\_Branch\_Project/Task\_16.xml" name="Task\_16"  
 owner="Assembler"  
 processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"  
 type="general" userid="MA">  
 <A:start>2001 8 7 11</A:start>  
 <A:finish>2001 8 7 12</A:finish>  
 <A:supertask name="Task\_1" />  
 <A:user>MA</A:user>  
 <A:predecessor name="Task\_5" />  
 <A:successor name="Task\_19" />  
 <A:output name="Artifact\_17" />  
 <A:event caption="??Event\_name" link="http://localhost:8080/webdav"  
 method="PROPPATCH" name="Event\_18" type="out">  
 <A:description>  
 - <![CDATA[  
 ??Event\_desc  
 ]]>  
 </A:description>  
 </A:event>  
 </A:task>  
 7360 {  
 <A:task activityID="54" caption="Left Special"  
 link="Sample\_Project\_Plans/Logic\_Branch\_Project/Task\_19.xml" name="Task\_19"  
 owner="Assembler"  
 processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"  
 type="general" userid="MA">  
 <A:start>2001 8 7 12</A:start>  
 <A:finish>2001 8 7 13</A:finish>  
 <A:supertask name="Task\_1" />  
 <A:user>MA</A:user>  
 <A:predecessor name="Task\_16" />  
 <A:successor name="Task\_10" />  
 <A:output name="Artifact\_20" />  
 <A:event caption="??Event\_name" link="http://localhost:8080/webdav"  
 method="PROPPATCH" name="Event\_21" type="out">  
 <A:description>  
 - <![CDATA[  
 ??Event\_desc  
 ]]>  
 </A:description>  
 </A:event>  
 </A:task>  
 7370 {  
 <A:task caption="Get Fasteners"  
 link="Sample\_Project\_Plans/Logic\_Branch\_Project/Task\_20.xml" name="Task\_20" 7372  
 owner="Gopher"  
 type="general" userid="MG">  
 <A:start>2001 8 7 10</A:start>  
 <A:finish>2001 8 7 11</A:finish>  
 <A:supertask name="Task\_1" />  
 <A:user>MG</A:user>  
 <A:predecessor name="Task\_2" />  
 <A:successor name="Task\_5" />  
 <A:output name="Artifact\_22" />  
 <A:event caption="??Event\_name" link="http://localhost:8080/webdav"  
 method="PROPPATCH" name="Event\_23" type="out">  
 <A:description>  
 - <![CDATA[  
 ??Event\_desc  
 ]]>  
 </A:description>  
 </A:event>

# FIG. 74

7400

```
<?xml version="1.0" encoding="UTF-8" ?>
<A:plan name="Logic_Branch_Project" userid="MA" xmlns:A="workflow">
  <A:description>
    - <![CDATA[
      No Description
    ]]>
  </A:description>
```

```
  <A:task activityID="10" caption="Get Parts"
    link="Sample_Project_Plans/Logic_Branch_Project/Task_2.xml"
    name="Task_2" owner="Gopher"
    processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
    type="general" userid="MA">
    <A:start>2001 8 7 8</A:start>
    <A:finish>2001 8 7 10</A:finish>
    <A:supertask name="Task_1" />
    <A:user>MA</A:user>
    <A:resource assignment="Auto"/>
    <A:successor name="Task_20" />
    <A:output name="Artifact_3" />
    - <A:event caption="??Event_name" link="http://localhost:8080/webdav"
      method="PROPPATCH" name="Event_4" type="out">
      <A:description>
        - <![CDATA[
          ??Event_desc
        ]]>
      </A:description>
    </A:event>
  </A:task>
  <A:task activityID="50" caption="L Or Rt Handed?"
    link="Sample_Project_Plans/Logic_Branch_Project/Task_5.xml" name="Task_5"
    owner="Assembler"
    processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
    type="logic" userid="MA">
    <A:start>2001 8 7 11</A:start>
    <A:finish>2001 8 7 11</A:finish>
    <A:supertask name="Task_1" />
    <A:user>MA</A:user>
    <A:predecessor name="Task_20" />
    <A:successor name="Task_7" />
    <A:output name="Artifact_6" />
  </A:task>
```

7410

7412  
7416

7414

7420

7430

```
  </A:task>
  <A:task caption="Get Fasteners"
    link="Sample_Project_Plans/Logic_Branch_Project/Task_20.xml" name="Task_20"
    owner="Gopher"
    type="general" userid="MG">
    <A:start>2001 8 7 10</A:start>
    <A:finish>2001 8 7 11</A:finish>
    <A:supertask name="Task_1" />
    <A:user>MG</A:user>
    <A:predecessor name="Task_2" />
    <A:successor name="Task_5" />
    <A:output name="Artifact_22" />
    - <A:event caption="??Event_name" link="http://localhost:8080/webdav"
      method="PROPPATCH" name="Event_23" type="out">
      <A:description>
        - <![CDATA[
          ??Event_desc
        ]]>
      </A:description>
    </A:event>
  </A:task>
```

7410 7412 7414 7416 7420 7430